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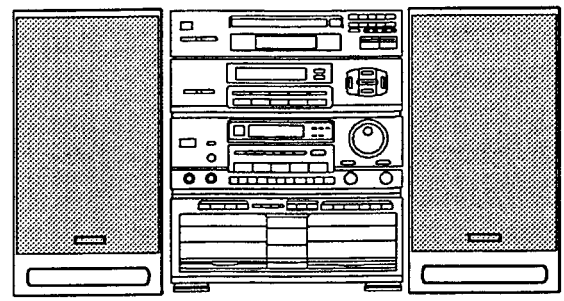
aiwa

XS-Z900M

SERVICE MANUAL



STEREO CASSETTE RECEIVER
SPEAKER SYSTEM

- BASIC TAPE MECHANISM : 1ZM – 3
- TYPE. AH,HE,HS,E,K,Z

CENTER SYSTEM	CASSEIVER	SPEAKER	TURNTABLE (OPTIONAL)	CD PLAYER (OPTIONAL)
XS – Z900M	CX – Z900M	SX – Z900	※1 PX – E900 (AH,HE,HS) ※1 PX – E800 (E,K,Z)	※2 DX – Z950M (AH,HE,E,K,Z) ※3 DX – Z900M (AH,HE,E,K,Z) ※4 DX – Z850 (HS) ※4 DX – Z830 (AH,HE,E,K,Z)

※1 As to the service information of PX – E800/E900, see the individual service manual of PX – E800/E900.

※2 As to the service information of DX – Z950M, see the individual service manual of DX – Z950M.

※3 As to the service information of DX – Z900M, see the individual service manual of DX – Z900M.

※4 As to the service information of DX – Z850/Z830, see the individual service manual of DX – Z850/Z830.

AIWA CO.,LTD. Tokyo Japan

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SPECIFICATIONS

<FM section>

Frequency range	87.5 MHz to 108 MHz
Usable sensitivity (IHF)	1.6 μV (75 ohms) 15.2 dBf
Alternate channel selectivity	52 dB (± 400 kHz)
Signal-to-noise ratio	77 dB (MONO)
Frequency response	40 Hz to 13 kHz (+0.5, -3 dB)
Stereo separation	35 dB at 1 kHz
Antenna	75 ohms (unbalanced)

<AM(MW) section>

Frequency range	HE, AH, HS : 531 (530) kHz to 1,602 (1,710) kHz E, K, Z : 522 kHz to 1,611 kHz
Usable sensitivity	HE, AH, HS : 300 μV/m E, K, Z : 400 μV/m
Selectivity	25 dB (9 kHz)
Signal-to-noise ratio	50 dB (100 dB input)
Antenna	Loop antenna

<LW section> (E, K, Z models only)

Frequency range	144 kHz to 290 kHz
Sensitivity	1000 μV/m
Antenna	Loop antenna

<Amplifier section>

Power output	HE, AH, HS : 70W + 70W (6 ohms + 16 ohms, EIAJ) E, Z : 50W + 50W (6 ohms + 16 ohms, T.H.D. 1%, 1 kHz) K : 50W + 50W (6 ohms + 16 ohms, T.H.D. 1%, 1 kHz) 70W + 70W (6 ohms + 16 ohms, T.H.D. 10%, 1 kHz)
Power bandwidth (IHF)	30 Hz to 50 kHz (0.5%, 20W)
Signal-to-noise ratio	82 dB
Output terminals	speakers : 6 ohms to 16 ohms SURROUND : 16 ohms + 16 ohms headphones : 32 ohms
Input sensitivity (load impedance)	VIDEO/AUX : 280 mV (47 kohms) PHONO : 280 mV (47 kohms)

<Cassette deck section>

Track format	4 tracks, 2 channels
Frequency response	METAL tape : 35-16,000 Hz (P.B) CrO_2 tape : 35-16,000 Hz NORMAL tape : 35-15,000 Hz
Signal-to-noise ratio	60 dB (DOLBY NR ON)
Tape speed:	4.8 cm/sec.(1 7/8 ips) 9.5 cm/sec.(Double speed)
Rewind time	120 sec.(C-60)
Fast forward time	120 sec.(C-60)
Recording system	AC bias
Erase system	AC erase
Motor	DC Servomotor × 1
Heads	Playback head × 1 (Deck-1) Record/playback head × 1 (Deck 2) Erase head × 1 (Deck 2)

<General>

Power requirements	HE, AH : 120V/220V/240V, switchable 50/60 Hz HS : 110V/220V, 60 Hz E, Z : 230V 50 Hz K : 240V 50 Hz
Power consumption	HE, AH : 115W (System total 125W) HS : 230W (System total 240W) E, K, Z : 300W (System total 310W)
Dimensions (W × H × D)	360 × 359 × 310 mm
Weight	8.5 kg

SPEAKER SX-Z900

Cabinet type	Bass reflex
Speaker	220 mm cone type woofer 60 mm cone type tweeter 30 mm ceramic type tweeter
Frequency response	45 to 20,000 Hz
Impedance	6 ohms
Output sound pressure level	90 dB/W/m
Music power	AH, HE, HS : 70W E, K, Z : 60W
Dimensions (W × H × D)	AH, HE, HS : 260 × 470 × 215 mm E, K, Z : 264 × 474 × 200 mm
Weight	AH, HE, HS : 4.8 kg E, K, Z : 4.7 kg

- Design and specifications are subject to change without notice.
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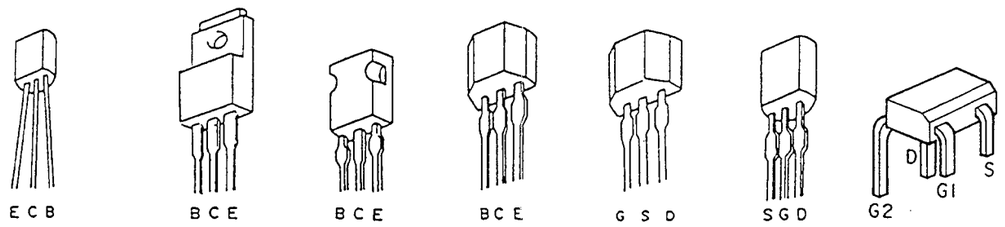
■ ACCESSORIES/PACKAGE LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	1	★82-MK1-901-019	INSTRUCTION BOOKLET SINGAPORE (AH,HE)	※	1
	2	★82-MK1-903-019	INSTRUCTION BOOKLET HES (HS)	※	1
	3	★82-MK1-902-018	NSTRUCTION BOOKLET GWENT (E,K,Z)	※	1
	4	★81-748-632-018	FEEDER ANT FMN (EXCEPT Z)		1
	5	★87-043-106-019	FM, WIRE ANT Z (ZONLY)		1
	6	★87-006-223-019	AM – LOOP ANT NC (AH,HE,HS)		1
	7	★81-653-647-010	AM – LOOP ANT (6T) CON (E,K,)		1
	8	★81-653-645-010	AM – LOOP ANT (6T) NC (Z)		1
	9	★82-MK1-106-019	REMOTE CONTROLLER RC – TZ900MF (AH,HE)		1
	10	★82-MK1-107-019	REMOTE CONTROLLER RC – TZ900MFS (HS)		1
	11	★82-MK1-101-019	REMOTE CONTROLLER RC – TZ900ML (E.K.Z)		1
	12	★87-032-845-019	PLUG CONVERSION (AH)		1
	13	★87-042-062-019	PLUG, ADPTR S – I6115 (HE)		1
	14	★89-MX1-722-019	PLUG, ADAPTOR (4.8) (HS)		1

TRANSISTOR ILLUSTRATION



E C B	B C E	B C E	B C E	G S D	S G D	G2 D G1 S
2SA1015 2SC1815	2SB1370	2SB1354	DTA114	2SK161	2SK246	3SK73GR
2SA1296 2SC1923			DTA144	2SK241		
2SA1318 2SC2001			DTC143			
2SA933 2SC2240			DTC144			
2SA952 2SC3266			2SC3113			
2SC1740 2SC3331						
2SC945						
2SD655						

ELECTRICAL MAIN PARTS LIST

REF. NO.	PART NO.	DESCRIPTION
===IC===		
	87-001-993-019	IC, BA10324
	87-001-632-019	IC, BA10393N
	87-001-440-019	IC, BA15218N
	87-002-444-019	IC, BU4094B
	87-001-874-019	IC, HA12134A
	87-001-347-019	IC, HD14051BP(E, K, Z)
	87-001-942-019	IC, LA1265S (G)
	87-001-530-019	IC, LA3607
	82-MA2-636-010	IC, LC65204A-4927
	81-MK1-630-010	IC, LC6568H-4645
	87-001-376-019	IC, LC7218
	87-001-528-019	IC, LC7522
	87-002-239-019	IC, LM3364K-15
	87-002-241-010	IC, M50195P
	87-020-758-019	IC, NJM 2068 SD
	87-020-982-019	IC, STK4162-MK2
	87-020-446-019	IC, TA7343AP
	87-027-958-019	IC, TC4051BP(AH, HE, HS)
	87-001-790-010	IC, UNIT, SBX1610-52
	87-001-869-010	IC, XR-1091
	87-001-883-010	IC, XR-C5424B
	87-002-438-010	IC, YM 3428
===TRANSISTOR===		
	89-501-615-019	FET, 2SK161GR
	89-502-415-019	FET, 2SK241GR
	89-502-466-019	FET, 2SK246-BL
	89-502-464-019	FET, 2SK246Y
	87-026-165-019	FET, 3SK73GR(Z)
	89-110-155-019	TRANSISTOR, 2SA1015GR
	89-112-965-019	TRANSISTOR, 2SA1296GR
	89-113-187-819	TRANSISTOR, 2SA1318TU
	87-026-463-019	TRANSISTOR, 2SA933S(RS)
	89-109-521-019	TRANSISTOR, 2SA952K
	89-213-542-389	TRANSISTOR, 2SB1354EF
	89-213-702-019	TRANSISTOR, 2SB1370E
	87-026-462-019	TRANSISTOR, 2SC1740S(RS)
	89-318-155-019	TRANSISTOR, 2SC1815GR
	89-318-154-019	TRANSISTOR, 2SC1815Y
	89-319-233-019	TRANSISTOR, 2SC1923(O)
	89-320-011-019	TRANSISTOR, 2SC2001K
	89-322-406-019	TRANSISTOR, 2SC2240BL
	89-331-130-019	TRANSISTOR, 2SC3113A, B
	89-332-665-019	TRANSISTOR, 2SC3266GR
	89-333-317-889	TRANSISTOR, 2SC3331TU
	89-309-456-019	TRANSISTOR, 2SC945L P
	89-406-555-019	TRANSISTOR, 2SD655E
	87-026-214-019	TRANSISTOR, DTA114YS
	87-026-219-019	TRANSISTOR, DTA144ES
	87-026-289-019	TRANSISTOR, DTC143XS
	87-026-218-019	TRANSISTOR, DTC144ES
===DIODE====		
	87-001-783-019	DIODE, 1N4002-T
	87-001-574-019	DIODE, 1SR139-200 T31
	87-020-691-019	DIODE, 1SS132
	87-020-465-019	DIODE, 1SS133
	87-020-123-019	DIODE, DS446-AT
	87-001-559-019	DIODE, ISS131
	87-027-720-019	DIODE, S4VB20
	87-027-301-019	DIODE, ZENER HZ3A1
	87-027-416-019	DIODE, ZENER HZ3C2
	87-027-475-019	DIODE, ZENER HZ6B1
	87-027-399-019	DIODE, ZENER HZ7A3L
	87-001-916-019	DIODE, ZENER UTZJ10B
	87-001-919-019	DIODE, ZENER UTZJ27C

REF. NO.	PART NO.	DESCRIPTION
	87-001-913-019	DIODE, ZENER UTZJ5.6B
	87-001-915-019	DIODE, ZENER UTZJ6.8A
===MAIN CIRCUIT BOARD SECTION===		
BPF731	★82-794-697-010	FILTER ANT BIRDIE(Z)
BPF831	★87-030-105-010	FILTER BPMB8A(Z)
C101	★81-794-643-099	CAP, ELECT 4700-50V
C102	★81-794-643-099	CAP, ELECT 4700-50V
C103	★87-010-390-099	CAP, ELECT 3300-25 SME
C104	★87-010-381-019	CAP, ELECT 330-16 SME
C105	★87-010-101-019	CAP, ELECT 220-16 SME
C106	★87-010-247-019	CAP, ELECT 100-50 SME
C107	★87-010-408-019	CAP, ELECT 47-50 SME
C108	★87-010-408-019	CAP, ELECT 47-50 SME
C109	★87-010-263-019	CAP, ELECT 100-10
C112	★87-010-260-019	CAP, ELECT 47-25 SME
C113	★87-010-403-019	CAP, ELECT 3.3-50 SME
C114	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C115	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C116	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C117	★87-010-405-019	CAP, ELECT 10-50 SME
C118	★87-010-374-019	CAP, ELECT 47-10
C151	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C152	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C153	★87-010-405-019	CAP, ELECT 10-50 SME
C154	★87-010-405-019	CAP, ELECT 10-50 SME
C155	★87-010-260-019	CAP, ELECT 47-25 SME
C156	★87-010-260-019	CAP, ELECT 47-25 SME
C157	★87-010-374-019	CAP, ELECT 47-10
C158	★87-010-374-019	CAP, ELECT 47-10
C159	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C160	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C165	★87-018-203-019	CAP, CERA-SOL SS 8200P-16 Y(Z)
C166	★87-018-203-019	CAP, CERA-SOL SS 8200P-16 Y(Z)
C167	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C168	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C172	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C173	★87-018-104-019	CAP, CERA-SOL SS 10P-50 SL
C174	★87-018-104-019	CAP, CERA-SOL SS 10P-50 SL
C181	★87-010-408-019	CAP, ELECT 47-50 SME
C199	★87-018-131-019	CAP, CERA-SOL SS 1000P-50
C201	★87-010-401-019	CAP, ELECT 1-50 SME
C202	★87-010-401-019	CAP, ELECT 1-50 SME
C203	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C204	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C205	★87-010-404-019	CAP, ELECT 4.7-50 SME
C206	★87-010-404-019	CAP, ELECT 4.7-50 SME
C211	★87-010-382-019	CAP, ELECT 22-25 SME
C212	★87-010-404-019	CAP, ELECT 4.7-50 SME
C303	★87-018-125-019	CAP, CERA-SOL SS 330P-50 B
C304	★87-018-125-019	CAP, CERA-SOL SS 330P-50 B
C309	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B (EXCEPT Z)
C309	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(Z)
C310	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B (EXCEPT Z)
C310	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(Z)
C313	★87-018-205-019	CAP, CERA-SOL SS 0.022-25 F
C343	★87-018-205-019	CAP, CERA-SOL SS 0.022-25 F
C351	★87-018-121-019	CAP, CERA-SOL SS 150P-50 B
C352	★87-018-121-019	CAP, CERA-SOL SS 150P-50 B
C353	★87-018-124-019	CAP, CERA-SOL SS 270P-50 B
C354	★87-018-124-019	CAP, CERA-SOL SS 270P-50 B
C361	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B (EXCEPT Z)
C361	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(Z)

REF. NO.	PART NO.	DESCRIPTION
C362	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B (EXCEPT Z)
C362	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(Z)
C366	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C401	★87-010-812-019	CAP, ELECT 0.33-50V BP
C402	★87-010-812-019	CAP, ELECT 0.33-50V BP
C403	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C404	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C405	★87-010-072-019	CAP, ELECT 2.2-50 5L
C406	★87-010-072-019	CAP, ELECT 2.2-50 5L
C407	★87-018-130-019	CAP, CERA-SOL SS 820P-50 B
C408	★87-018-130-019	CAP, CERA-SOL SS 820P-50 B
C409	★87-015-057-019	CAP, ELECT 0.22-50 7L
C410	★87-016-057-019	CAP, ELECT 0.22-50 7L
C411	★87-010-401-019	CAP, ELECT 1-50 SME
C412	★87-010-401-019	CAP, ELECT 1-50 SME
C413	★87-010-371-019	CAP, ELECT 470-6.3
C414	★87-010-260-019	CAP, ELECT 47-25 SME
C415	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C451	★87-018-123-019	CAP, CERA-SOL SS 220P-50 B
C452	★87-018-123-019	CAP, CERA-SOL SS 220P-50 B
C453	★87-018-131-019	CAP, CERA-SOL SS 1000P-50
C456	★87-010-260-019	CAP, ELECT 47-25 SME
C501	★87-010-402-019	CAP, ELECT 2.2-50 SME
C502	★87-010-402-019	CAP, ELECT 2.2-50 SME
C503	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C504	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C513	★87-010-401-019	CAP, ELECT 1-50 SME
C514	★87-010-401-019	CAP, ELECT 1-50 SME
C515	★87-018-121-019	CAP, CERA-SOL SS 150P-50 B
C516	★87-018-121-019	CAP, CERA-SOL SS 150P-50 B
C604	★87-010-384-019	CAP, ELECT 100-25 SME
C605	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C606	★87-010-404-019	CAP, ELECT 4.7-50 SME
C607	★87-018-106-019	CAP, CERA-SOL SS 15P-50 SL
C608	★87-010-248-019	CAP, ELECT 220-10 SME
C609	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C610	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C611	★87-010-374-019	CAP, ELECT 47-10
C621	★87-018-199-019	CAP, CERA-SOL SS 3300P-16 X
C622	★87-018-199-019	CAP, CERA-SOL SS 3300P-16 X
C623	★87-018-195-019	CAP, CERA-SOL SS 1200P-16 X
C624	★87-018-195-019	CAP, CERA-SOL SS 1200P-16 X
C625	★87-010-403-019	CAP, ELECT 3.3-50 SME
C626	★87-010-403-019	CAP, ELECT 3.3-50 SME
C633	★87-010-221-019	CAP, ELECT 470-10
C721	★87-010-402-019	CAP, ELECT 2.2-50 SME
C722	★87-010-402-019	CAP, ELECT 2.2-50 SME
C723	★87-010-405-019	CAP, ELECT 10-50 SME
C724	★87-014-057-019	CAP, PP 1000P-100 J
C725	★87-010-401-019	CAP, ELECT 1-50 SME
C726	★87-010-403-019	CAP, ELECT 3.3-50 SME
C727	★87-010-248-019	CAP, ELECT 220-10 SME
C728	★87-010-402-019	CAP, ELECT 2.2-50 SME(Z)
C729	★87-010-402-019	CAP, ELECT 2.2-50 SME(Z)
C741	★87-010-402-019	CAP, ELECT 2.2-50 SME
C742	★87-018-038-019	CAP, CERA-SOL SS 330P-50 B
C743	★87-010-382-019	CAP, ELECT 22-25 SME
C744	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C745	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C746	★87-010-401-019	CAP, ELECT 1-50 SME
C747	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C748	★87-010-404-019	CAP, ELECT 4.7-50 SME
C749	★87-010-405-019	CAP, ELECT 10-50 SME
C750	★87-010-544-019	CAP, ELECT 0.1-50
C751	★87-010-403-019	CAP, ELECT 3.3-50 SME
C752	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C754	★87-010-260-019	CAP, ELECT 47-25 SME

REF. NO.	PART NO.	DESCRIPTION
C755	★87-010-401-019	CAP, ELECT 1-50 SME
C760	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C791	★87-010-374-019	CAP, ELECT 47-10
C802	★87-018-102-019	CAP, CERA-SOL SS 6.8P-50 SL
C804	★87-018-102-019	CAP, CERA-SOL SS 6.8P-50 SL
C805	★87-018-098-019	CAP, CERA-SOL SS 3.3P-50 SL (EXCEPT Z)
C805	★87-018-097-019	CAP, CERA-SOL SS 2.2P-50 SL(Z)
C806	★87-018-096-019	CAP, CERA-SOL SS 1P-50 SL
C807	★87-018-100-019	CAP, CERA-SOL SS 4.7P-50 SL (EXCEPT Z)
C807	★87-018-106-019	CAP, CERA-SOL SS 15P-50 SL(Z)
C808	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
C809	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C810	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C811	★87-018-116-019	CAP, CERA-SOL SS 56P-50 SL
C812	★87-018-107-019	CAP, CERA-SOL SS 18P-50 SL
C814	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C816	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C818	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(E, K, Z)
C819	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C831	★87-018-103-019	CAP, CERA-SOL SS 8.2P-50 SL (EXCEPT Z)
C831	★87-018-105-019	CAP, CERA-SOL SS 12P-50 SL(Z)
C832	★87-018-100-019	CAP, CERA-SOL SS 4.7P-50 SL(Z)
C834	★87-018-105-019	CAP, CERA-SOL SS 12P-50 SL(Z)
C941	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(E, K, Z)
C942	★87-018-121-019	CAP, CERA-SOL SS 150P-50 B(E, K, Z)
C943	★87-018-047-019	CAP, PP 390P-100 J(E, K, Z)
C944	★87-018-109-019	CAP, CERA-SOL SS 22P-50 SL(E, K, Z)
C946	★87-010-401-019	CAP, ELECT 1-50 SME
C947	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(E, K, Z)
C949	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y (AH, HE, HS)
C949	★87-018-131-019	CAP, CERA-SOL SS 1000P-50(E, K, Z)
C962	★87-010-401-019	CAP, ELECT 10-50 SME(E, K, Z)
C963	★87-014-049-019	CAP, PP 470P-100 J(AH, HE, HS)
C963	★87-014-051-019	CAP, PP 560P-100 J(E, K, Z)
C964	★87-018-110-019	CAP, CERA-SOL SS 24P-50 SL (AH, HE, HS)
C964	★87-018-109-019	CAP, CERA-SOL SS 22P-50 SL(E, K, Z)
C971	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C983	★87-010-544-019	CAP, ELECT 0.1-50(AH, HE, HS)
C985	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C990	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
CF741	★82-794-670-019	BFU 450C4N
CF971	★87-008-261-019	FILTER, SFE10.7MA5-A(EXCEPT Z)
CF971	★87-799-621-019	FILTER, MS2-A(Z)
CF972	★87-008-261-019	FILTER, SFE10.7MA5-A
CF973	★87-008-261-019	FILTER, SFE10.7MA5-A(Z)
D801	★87-027-900-019	VARI-CAP, 1SV147
D802	★87-027-900-019	VARI-CAP, 1SV147
D803	★87-027-900-019	VARI-CAP, 1SV147
D804	★87-027-900-019	VARI-CAP, 1SV147(Z)
D981	★81-754-634-010	VARI-CAP, KV1250
J150	★87-049-855-019	JACK, 6.3 W/S(PHONES)
J151	★81-CXC-657-019	JACK, 4P-1(VIDEO/AUX)(PHONO)
J152	★87-009-063-019	CONNECTOR, 11P FG
J153	★87-049-862-019	JACK ASSY, 2P(SURROUND SPEAKERS)
J154	★87-033-226-019	TERMINAL, SP 4P(JT)(SPEARKERS) (EXCEPT Z)
J154	★87-033-216-019	TERMINAL, SP 4P R(SPEAKERS)(Z)
J901	★87-033-214-019	ANT TERM 4P(JT)(ANTENNA)(AH, HE, HS)
J901	★87-631-646-019	ANT TERM 2P PAL(ANTENNA)(E, K, Z)
J902	★81-754-629-019	CONNECTOR X11 M2P(UL)(MW/LW LOOP) (E, K)
L101	★87-005-366-010	COIL, 1UH(Z)
L102	★87-005-366-010	COIL, 1UH(Z)

REF. NO.	PART NO.	DESCRIPTION
L103	★87-005-130-019	COIL, 10UH
L451	★87-007-312-019	COIL, OSC BIAS 85K
L501	★87-003-131-019	COIL, 10MMH
L502	★87-003-131-019	COIL, 10MMH
L503	★87-005-525-080	COIL, 22MMH-J
L504	★87-005-525-080	COIL, 22MMH-J
L601	★87-003-293-019	COIL, TRAP MPX
L602	★87-003-293-019	COIL, TRAP MPX
L603	★87-005-151-019	COIL, 2.2UH
L605	★87-005-151-019	COIL, 2.2UH(Z)
L741	★81-631-611-019	COIL, QUAD (SINGLE)
L742	★87-008-460-019	FILTER, CFMT 450PS
L801	★87-006-199-019	COIL, ANT FM 3/4T, L5
L802	★87-006-198-019	COIL, ANT FM 2-3/4TS, L5
L803	★87-006-200-019	COIL, RF FM 3-1/2T, L5
L804	★87-006-201-019	COIL, RF FM3-1/2TS, L5
L805	★87-005-151-019	COIL, 2.2UH(Z)
L806	★82-794-683-019	IFT, FM 6T
L807	★87-006-230-019	COIL, FM OSC (7K)
L831	★87-006-202-019	COIL, RF FM4TSR, L5(Z)
L941	★87-006-228-010	COIL, ANT LW(E, K, Z)
L942	★87-794-688-010	COIL, OSC LW(E, K, Z)
L981	★87-006-162-019	COIL OSC MW(9M)
L982	★87-006-229-019	COIL, ANT MW (9M) (AH, HE, HS)
L982	★87-006-227-019	COIL, ANT MW(E, K, Z)
R105	★87-022-050-019	RES, METAL 1W-0.22J
R106	★87-022-050-019	RES, METAL 1W-0.22J
R191	★87-022-050-019	RES, METAL 1W-0.22J
R192	★87-022-050-019	RES, METAL 1W-0.22J
R193	★87-022-050-019	RES, METAL 1W-0.22J
R194	★87-022-050-019	RES, METAL 1W-0.22J
RY101	★87-045-285-010	RELAY, VB12MB
SFR301	★87-024-349-019	SFR 1K
SFR302	★87-024-349-019	SFR 1K
SFR351	★87-024-349-019	SFR 1K
SFR352	★87-024-349-019	SFR 1K
SFR451	★87-024-356-019	SFR 47K
SFR452	★87-024-356-019	SFR 47K
SFR501	★87-024-352-019	SFR 4.7K
SFR502	★87-024-352-019	SFR 4.7K
SFR721	★87-024-352-019	SFR 4.7K
SFR722	★87-024-355-019	SFR 33K
TC601	★87-011-221-019	TRIMMER, 30P VCT51
TC801	★87-011-155-019	TRIMMER, 10P
TC802	★87-011-155-019	TRIMMER, 10P
TC803	★87-011-155-019	TRIMMER, 10P(Z)
TC941	★87-011-164-019	TRIMMER, 30P(E, K, Z)
TC961	★87-011-164-019	TRIMMER, 30P(AH, HE, HS)
TC961	★87-011-173-010	TRIMMER, 20P(E, K, Z)
VR151	★89-MK1-636-019	VR 50KAX2 RK09K12A (VIDEO/AUX INPUT LEVEL)
X601	★87-030-163-019	XTAL RESONATOR 7.2MHZ(NDK)
		===FRONT CIRCIUT BOARD SECTION===
C101	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C102	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C103	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C104	★87-010-235-019	CAP, ELECT 470-16 SME
C105	★87-015-695-019	CAP, ELECT 1-50 7L
C106	★87-015-694-019	CAP, ELECT 0.47-50-7L
C107	★87-010-370-019	CAP, ELECT 330-6.3 SME
C108	★87-015-699-019	CAP, ELECT 10-50 7L
C110	★87-015-964-019	CAP, ELECT 0.47-50 5L
C111	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C112	★87-018-195-019	CAP, CERA-SOL SS 1200P-16X
C160	★87-018-195-019	CAP, CERA-SOL SS 1200P-16X
C201	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C202	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F

REF. NO.	PART NO.	DESCRIPTION
C203	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C204	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C205	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C208	★87-010-370-019	CAP, ELECT 330-6.3 SME
C209	★87-015-695-019	CAP, ELECT 1-50 7L
C210	★87-015-682-019	CAP, ELECT 22-16 7L
C211	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C212	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C213	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C214	★87-010-264-019	CAP, ELECT 100-10 5L
C215	★87-010-264-019	CAP, ELECT 100-10 5L
C216	★87-010-221-019	CAP, ELECT 470-10
C217	★87-010-264-019	CAP, ELECT 100-10 5L
C219	★87-015-692-019	CAP, ELECT 0.22-50 7L
C220	★87-015-692-019	CAP, ELECT 0.22-50 7L
C222	★87-015-690-019	CAP, ELECT 22-35 7L
C223	★87-015-690-019	CAP, ELECT 22-35 7L
C224	★87-010-264-019	CAP, ELECT 100-10 5L
C225	★87-015-695-019	CAP, ELECT 1-50 7L
C226	★87-015-698-019	CAP, ELECT 4.7-50 7L
C332	★87-015-684-019	CAP, ELECT 47-16 7L
C401	★87-015-698-019	CAP, ELECT 4.7-50 7L
C402	★87-015-698-019	CAP, ELECT 4.7-50 7L
C405	★87-015-696-019	CAP, ELECT 2.2-50 7L
C406	★87-015-696-019	CAP, ELECT 2.2-50 7L
C407	★87-018-125-019	CAP, CERA-SOL SS 330P-50 B
C408	★87-018-125-019	CAP, CERA-SOL SS 330P-50 B
C409	★87-015-692-019	CAP, ELECT 0.22-50 7L
C410	★87-015-692-019	CAP, ELECT 0.22-50 7L
C411	★87-015-694-019	CAP, ELECT 0.47-50-7L
C412	★87-015-694-019	CAP, ELECT 0.47-50-7L
C415	★87-015-692-019	CAP, ELECT 0.22-50 7L
C416	★87-015-692-019	CAP, ELECT 0.22-50 7L
C425	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C426	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C429	★87-018-197-019	CAP, CERA-SOL SS 1800P-16 X
C430	★87-018-197-019	CAP, CERA-SOL SS 1800P-16 X
C431	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C432	★87-018-133-019	CAP, CERA-SOL SS 4700P-16 X
C433	★87-018-130-019	CAP, CERA-SOL SS 820P-50 B
C434	★87-018-130-019	CAP, CERA-SOL SS 820P-50 B
C435	★87-018-197-019	CAP, CERA-SOL SS 1800P-16 X
C436	★87-018-197-019	CAP, CERA-SOL SS 1800P-16 X
C437	★87-015-696-019	CAP, ELECT 2.2-50 7L
C438	★87-015-696-019	CAP, ELECT 2.2-50 7L
C439	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C440	★87-015-684-019	CAP, ELECT 47-16 7L
C441	★87-010-264-019	CAP, ELECT 100-10 5L
C442	★87-010-264-019	CAP, ELECT 100-10 5L
C443	★87-015-684-019	CAP, ELECT 47-16 7L
C507	★87-015-691-019	CAP, ELECT 0.1-50 7L
C508	★87-015-691-019	CAP, ELECT 0.1-50 7L
C511	★87-015-692-019	CAP, ELECT 0.22-50 7L
C512	★87-015-692-019	CAP, ELECT 0.22-50 7L
C513	★87-015-692-019	CAP, ELECT 0.22-50 7L
C514	★87-015-692-019	CAP, ELECT 0.22-50 7L
C517	★87-015-696-019	CAP, ELECT 2.2-50 7L
C518	★87-015-696-019	CAP, ELECT 2.2-50 7L
C519	★87-018-202-019	CAP, CERA-SOL SS 6800P-16X
C520	★87-018-202-019	CAP, CERA-SOL SS 6800P-16X
C521	★87-015-693-019	CAP, ELECT 0.33-50 7L
C522	★87-015-695-019	CAP, ELECT 1-50 7L
C523	★87-015-694-019	CAP, ELECT 0.47-50 7L
C527	★87-015-695-019	CAP, ELECT 1-50 7L
C528	★87-015-695-019	CAP, ELECT 1-50 7L
C551	★87-015-677-019	CAP, ELECT 100-6.3 7L
C555	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B(Z)
C556	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B(Z)

REF. NO.	PART NO.	DESCRIPTION
C557	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B(Z)
C558	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B(Z)
C559	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C560	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(Z)
C561	★87-010-545-019	CAP, ELECT 0.22-50 SME
C562	★87-010-545-019	CAP, ELECT 0.22-50 SME
C601	★87-015-695-019	CAP, ELECT 1-50 7L
C602	★87-018-195-019	CAP, CERA-SOL SS 1200P-16X
C603	★87-018-125-019	CAP, CERA-SOL SS 330P-50 B
C604	★87-010-256-019	CAP, ELECT 0.68-50 7L(HE, HS)
C604	★87-015-698-019	CAP, ELECT 4.7-50 7L(AH, E, K, Z)
C605	★87-015-692-019	CAP, ELECT 0.22-50 7L(HE, HS)
C605	★87-015-699-019	CAP, ELECT 10-50 7L(AH, E, K, Z)
C606	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C607	★87-015-699-019	CAP, ELECT 10-50 7L
C608	★87-015-696-019	CAP, ELECT 2.2-50 7L
C609	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C610	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C612	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C615	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C801	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
C802	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F
FL101	★89-MK1-641-010	FL 9-BT-69GK(TUNER) (DISPLAY)
FL201	★82-MA2-635-010	FL, BJ082GK(SPEANA)
L101	★87-003-152-019	COIL, 100UH
L102	★87-003-102-019	COIL, 10UH
L103	★87-003-102-019	COIL, 10UH
LED301	87-001-124-019	LED SLZ 381C-02-T1(DIS MODE)
LED302	87-001-124-019	LED SLZ 381C-02-T1(DIS MODE)
LED303	87-001-124-019	LED SLZ 381C-02-T1(DIS MODE)
LED304	87-001-124-019	LED SLZ 381C-02-T1(DIS MODE)
LED801	87-001-124-019	LED SLZ 381C-02-T1(◀PLAY/DIR▶)
LED802	87-001-124-019	LED SLZ 381C-02-T1(◀PLAY/DIR▶)
LED803	87-001-123-019	LED SLZ 981C-02TI(SYNC DUBBING)
LED804	87-001-123-019	LED SLZ 981C-02TI(CD SNC REC)
LED805	87-001-123-019	LED SLZ 981C-02TI (●/⊙REC/REC MUTE)
LED806	87-001-124-019	LED SLZ 381C-02-T1(◀PLAY/DIR▶)
LED807	87-001-124-019	LED SLZ 381C-02-T1(◀PLAY/DIR▶)
LED808	87-001-294-019	LED SLZ 481C-02-T1(❚❚PAUSE)
LED809	87-001-124-019	LED SLZ 381C-02-T1(TAPE)
LED810	87-001-124-019	LED SLZ 381C-02-T1(TUNER)
LED811	87-001-124-019	LED SLZ 381C-02-T1(PHONO)
LED812	87-001-124-019	LED SLZ 381C-02-T1(VIDEO/AUX)
LED813	87-001-124-019	LED SLZ 381C-02-T1(CD)
LED814	87-001-124-019	LED SLZ 381C-02-T1(●BBE)
LED815	87-001-124-019	LED SLZ 381C-02-T1(●T-BASS)
S201	87-036-215-019	SW, TACT EVQ21404M(DSP)
S202	87-036-215-019	SW, TACT EVQ21404M(DEMO)
S203	87-036-215-019	SW, TACT EVQ21404M(MEMORY)
S204	87-036-215-019	SW, TACT EVQ21404M (GRAPHICEQUALIZER)
S205	87-036-215-019	SW, TACT EVQ21404M(POP)
S206	87-036-215-019	SW, TACT EVQ21404M(ROCK)
S207	87-036-215-019	SW, TACT EVQ21404M(JAZZ)
S208	87-036-215-019	SW, TACT EVQ21404M(CLASIC)
S209	87-036-215-019	SW, TACT EVQ21404M(M2)
S210	87-036-215-019	SW, TACT EVQ21404M(M1)
S211	87-036-215-019	SW, TACT EVQ21404M(M4)
S212	87-036-215-019	SW, TACT EVQ21404M(M3)
S213	87-036-215-019	SW, TACT EVQ21404M(∨)
S214	87-036-215-019	SW, TACT EVQ21404M(∧)
S215	87-036-215-019	SW, TACT EVQ21404M(>)
S216	87-036-215-019	SW, TACT EVQ21404M(<)
S302	82-MK1-638-019	SW, PUSH(VOCAL FADER)
S901	87-036-215-019	SW, TACT EVQ21404M(SLEEP)
S902	87-036-215-019	SW, TACT EVQ21404M(3)
S903	87-036-215-019	SW, TACT EVQ21404MA(7)

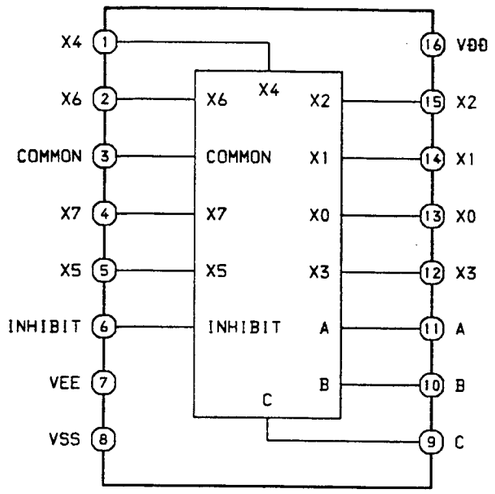
REF. NO.	PART NO.	DESCRIPTION
S904	87-036-215-019	SW, TACT EVQ21404M(BAND)
S905	87-036-215-019	SW, TACT EVQ21404M(SET)
S906	87-036-215-019	SW, TACT EVQ21404M(TAPE)
S907	87-036-215-019	SW, TACT EVQ21404M(◀◀2)
S908	87-036-215-019	SW, TACT EVQ21404M(NORMAL)
S909	87-036-215-019	SW, TACT EVQ21404M(◀◀1)
S910	87-036-215-019	SW, TACT EVQ21404M(◀PLAY/DIR▶)
S911	87-036-215-019	SW, TACT EVQ21404M(HIGH)
S912	87-036-215-019	SW, TACT EVQ21404M(◀PLAY/DIR▶)
S913	87-036-215-019	SW, TACT EVQ21404M(TUNER)
S914	87-036-215-019	SW, TACT EVQ21404M(FM MODE)
S915	87-036-215-019	SW, TACT EVQ21404M(UP)
S916	87-036-215-019	SW, TACT EVQ21404M(8)
S917	87-036-215-019	SW, TACT EVQ21404M(4)
S918	87-036-215-019	SW, TACT EVQ21404M(STANDBY)
S919	87-036-215-019	SW, TACT EVQ21404M(1)
S920	87-036-215-019	SW, TACT EVQ21404M(5)
S921	87-036-215-019	SW, TACT EVQ21404M(9)
S922	87-036-215-019	SW, TACT EVQ21404M(DOWN)
S923	87-036-215-019	SW, TACT EVQ21404M(DISPLAY)
S924	87-036-215-019	SW, TACT EVQ21404M(PHONO)
S925	87-036-215-019	SW, TACT EVQ21404M(▶▶2)
S926	87-036-215-019	SW, TACT EVQ21404M(CD SYNC REC)
S927	87-036-215-019	SW, TACT EVQ21404M(▶▶1)
S928	87-036-215-019	SW, TACT EVQ21404M(■STOP)
S929	87-036-215-019	SW, TACT EVQ21404M (●/⊙REC/REC MUTE)
S930	87-036-215-019	SW, TACT EVQ21404M(■STOP)
S931	87-036-215-019	SW, TACT EVQ21404M(VIDEO/AUX)
S932	87-036-215-019	SW, TACT EVQ21404M(CD)
S933	87-036-215-019	SW, TACT EVQ21404M(+10)
S934	87-036-215-019	SW, TACT EVQ21404M(0)
S935	87-036-215-019	SW, TACT EVQ21404M(6)
S936	87-036-215-019	SW, TACT EVQ21404M(2)
S937	87-036-215-019	SW, TACT EVQ21404M(❚❚PAUSE)
S938	87-036-215-019	SW, TACT EVQ21404M(POWER)
S939	87-036-215-019	SW, TACT EVQ21404M(●BBE)
S940	87-036-215-019	SW, TACT EVQ21404M(●T-BASS)
S941	82-MK1-636-019	SW, SLIDE 1-1-3 (CDRS/EDIT/STSD/CONT 1▶²)
S942	82-MK1-637-019	SW, SLIDE 1-1-2(DOLBY NR)
VR301	★82-MK1-634-019	VR 10KA RK11K114(T-BASS)
VR502	★82-MK1-642-019	VR 500KA-2 RK11K12P(BBE)
VR601	★82-MK1-634-019	VR 10KA RK11K114(MIC MIXING)
VR602	★82-MK1-633-019	VR, SL 10KB H(ECHO LEVEL) (HE, HS)
X101	★89-MX1-704-019	CERA LOCK(MU)3.9MHZ
X201	★89-MX1-704-019	CERA LOCK(MU)3.9MHZ
		===VR CIRCUIT BOARD SECTION===
C505	★87-015-695-019	CAP, ELECT 1-50 7L
C506	★87-015-695-019	CAP, ELECT 1-50 7L
C552	★87-010-112-019	CAP, ELECT 100-16
MVR801	★82-MK1-641-019	VR, ROTARY 50KA(VOLUME)
M801	+ + +	MOTOR, VR(VOLUME)
		===LED CIRCUIT BOARD SECTION===
LED820	87-001-123-019	LED SLZ 981C-02TI(VOLUME)
		===JACK CIRCUIT BAORD SECTION===
C601	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
J601	★87-009-204-019	JACK 6.3 YKB21-5012(MIC)
		===DECK-1 CIRCUIT BOARD SECTION===
S1	87-036-110-019	SW, LEAF(PLAY)
S2	86-575-632-110	SW, LEAF(FR)
S3	87-036-110-019	SW, LEAF(CST)
S4	87-036-110-019	SW, LEAF(Cr02)

REF. NO.	PART NO.	DESCRIPTION
SOL1	★86-575-622-010	SOLENOID(PLAY)
SOL2	★86-575-622-010	SOLENOID(FR)
		===DECK-2 CIRCUIT BOARD SECTION===
M1	87-045-319-019	MOTOR SHU2L
S1	87-036-110-019	SW, LEAF(PLAY)
S2	86-575-632-119	SW, LEAF(FR)
S3	87-036-110-019	SW, LEAF(CST)
S4	87-036-110-019	SW, LEAF(CrO2)
S5	87-036-109-019	SW, LEAF(REA)
S6	87-036-110-019	SW, LEAF(REB)
SFR1	★87-024-331-019	SFR 5K
SFR2	★87-024-331-019	SFR 5K
SOL1	★86-575-622-010	SOLENOID(PLAY)
SOL2	★86-575-622-010	SOLENOID(FR)
		===RELAY-1 CIRCUIT BOARD SECTION===
		===RELAY-2 CIRCUIT BOARD SECTION===
		===POWER-1 CIRCUIT BOARD SECTION===
⚠	★87-033-147-019	FUSE CLAMP
⚠F1	87-035-190-019	FUSE, T2A
⚠F2	87-035-190-019	FUSE, T2A(AH, HE, HS)
⚠PT101	82-MK1-671-019	POWER TRANSFORMER, 2MK-1H(AH, HE, HS)
⚠PT101	82-MK1-612-018	POWER TRANSFORMER, E(E, Z)
⚠PT101	81-MK1-621-019	POWER TRANSFORMER, K(K)
		===POWER-2 CIRCUIT BAOED SECTION===
R101	★87-022-184-019	RES, METAL 0.33-1W
R102	★87-022-184-019	RES, METAL 0.33-1W
R103	★87-022-184-019	RES, METAL 0.33-1W
		===DSP CIRCUIT BAORD SECTION===
C101	★87-015-691-019	CAP, ELECT 0.1-50 7L
C102	★87-015-691-019	CAP, ELECT 0.1-50 7L
C103	★87-018-104-019	CAP, CERA-SOL SS 10P-50 SL
C104	★87-015-691-019	CAP, ELECT 0.1-50 7L
C105	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C106	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C107	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C109	★87-015-691-019	CAP, ELECT 0.1-50 7L
C110	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y
C112	★87-015-677-019	CAP, ELECT 100-6.3 7L
C113	★87-018-108-019	CAP, CERA-SOL SS 20P-50 SL
C114	★87-018-108-019	CAP, CERA-SOL SS 20P-50 SL
C115	★87-018-131-019	CAP, CERA-SOL SS 1000P-50 B
C116	★87-010-248-019	CAP, ELECT 220-10 SME
C117	★87-018-123-019	CAP, CERA-SOL SS 220P-50 B
C118	★87-018-123-019	CAP, CERA-SOL SS 220P-50 B
C119	★87-015-699-019	CAP, ELECT 10-50 7L
C120	★87-015-699-019	CAP, ELECT 10-50 7L
C121	★87-018-196-019	CAP, CERA-SOL SS 1500P-16 X
C122	★87-018-196-019	CAP, CERA-SOL SS 1500P-16 X
C123	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C124	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C125	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C126	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B
C127	★87-015-698-019	CAP, ELECT 4.7-50 7L
C128	★87-015-698-019	CAP, ELECT 4.7-50 7L
C129	★87-015-698-019	CAP, ELECT 4.7-50 7L
C130	★87-015-698-019	CAP, ELECT 4.7-50 7L
C131	★87-015-699-019	CAP, ELECT 10-50 7L
C132	★87-015-699-019	CAP, ELECT 10-50 7L
C133	★87-015-695-019	CAP, ELECT 1-50 7L
C134	★87-015-695-019	CAP, ELECT 1-50 7L
C137	★87-015-699-019	CAP, ELECT 10-50 7L
C138	★87-015-699-019	CAP, ELECT 10-50 7L
C139	★87-015-699-019	CAP, ELECT 10-50 7L

REF. NO.	PART NO.	DESCRIPTION
C140	★87-015-699-019	CAP, ELECT 10-50 7L
C144	★87-010-370-019	CAP, ELECT 330-6.3 SME
C201	★87-015-695-019	CAP, ELECT 1-50 7L(HE, HS)
C203	★87-015-695-019	CAP, ELECT 1-50 7L(HE, HS)
C204	★87-018-134-019	CAP, CERA-SOL SS 0.01-16 Y(HE, HS)
C205	★87-015-699-019	CAP, ELECT 10-50 7L(HE, HS)
C207	★87-018-129-019	CAP, CERA-SOL SS 680P-50 B(HE, HS)
C209	★87-015-698-019	CAP, ELECT 4.7-50 7L(HE, HS)
C210	★87-018-202-019	CAP, CERA-SOL SS 6800P-16 X(HE, HS)
C211	★87-015-684-019	CAP, ELECT 47-16 7L(HE, HS)
C212	★87-018-214-019	CAP, CERA-SOL SS 0.1-50 F(HE, HS)
C213	★87-015-698-019	CAP, ELECT 4.7-50 7L(HE, HS)
C217	★87-015-684-019	CAP, ELECT 47-16 7L(HE, HS)
C301	★87-015-695-019	CAP, ELECT 1-50 7L
C302	★87-015-695-019	CAP, ELECT 1-50 7L
C305	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C306	★87-018-127-019	CAP, CERA-SOL SS 470P-50 B
C309	★87-015-693-019	CAP, ELECT 0.33-50 7L
C310	★87-015-693-019	CAP, ELECT 0.33-50 7L
C311	★87-015-694-019	CAP ELECT 0.47-50-7L
C312	★87-015-694-019	CAP ELECT 0.47-50-7L
C313	★87-015-698-019	CAP, ELECT 4.7-50 7L
C314	★87-015-698-019	CAP, ELECT 4.7-50 7L
C317	★87-018-109-019	CAP, CERA-SOL SS 22P-50 SL
C318	★87-018-109-019	CAP, CERA-SOL SS 22P-50 SL
C321	★87-015-694-019	CAP ELECT 0.47-50 7L
C322	★87-015-694-019	CAP ELECT 0.47-50 7L
C323	★87-015-698-019	CAP, ELECT 4.7-50 7L
C324	★87-015-698-019	CAP, ELECT 4.7-50 7L
C331	★87-015-699-019	CAP, ELECT 10-50 7L
C332	★87-015-684-019	CAP, ELECT 47-16 7L
C333	★87-015-684-019	CAP, ELECT 47-16 7L
C335	★87-015-698-019	CAP, ELECT 4.7-50 7L
C403	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C404	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C405	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C406	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C407	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C409	★87-018-132-019	CAP, CERA-SOL SS 2200P-16 X
C413	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
C415	★87-015-698-019	CAP, ELECT 4.7-50 7L
C416	★87-018-119-019	CAP, CERA-SOL SS 100P-50 B
C418	★87-015-698-019	CAP, ELECT 4.7-50 7L
C451	★87-015-695-019	CAP, ELECT 1-50 7L
L101	★87-003-154-019	COIL, 220UH
L201	★87-003-154-019	COIL, 220UH(HE, HS)
SFR401	★87-024-353-089	SFR 10K
X101	★87-030-225-089	CERA LOCK CST3.58
X201	★87-030-225-089	CERA LOCK CST3.58(HE, HS)
		===AC VOLTAGE CIRCUIT BOARD SECTION=== (AH, HE, HS ONLY)
⚠S101	87-036-173-019	SW, SLIDE (AC VOLTAGE)(AH, HE)
⚠S101	87-036-286-019	SW, SLIDE (AC VOLTAGE)(HS)
		===MISCELLANEOUS===
⚠	★87-034-749-019	AC CORD, H W/PLUG(AH)
⚠	★82-187-797-019	AC CORD(E)(HE, E, Z)
⚠	★81-MX4-736-019	AC CORD(H), HS(HS)
⚠	★87-034-975-010	AC CORD, K(K)
⚠	★87-085-185-010	BUSHING, AC CORD E(EXCEPT HS)
⚠	★87-085-189-010	BUHING, CORD U(HS)
CON301	82-MK1-625-019	CONNECTOR ASSY HEAD 1(D1)
CON351	82-MK1-626-019	CONNECTOR ASSY HEAD 2(D2)
PH	87-046-355-010	P HEAD(D1)
RPH	87-046-356-010	R.P. HEAD(D2)

IC BLOCK DIAGRAM – 1

IC,HD14051BP

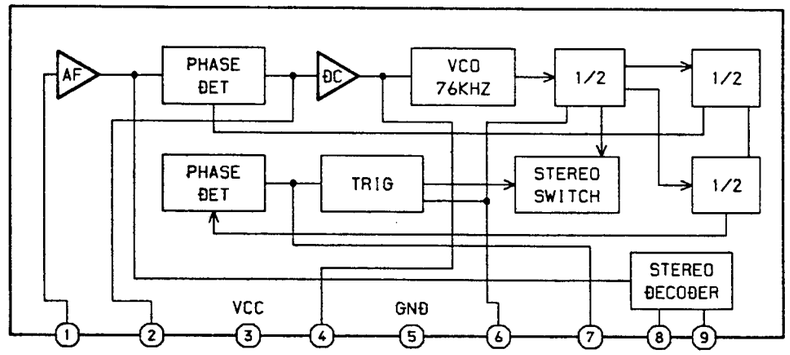


IC,HD14051BP

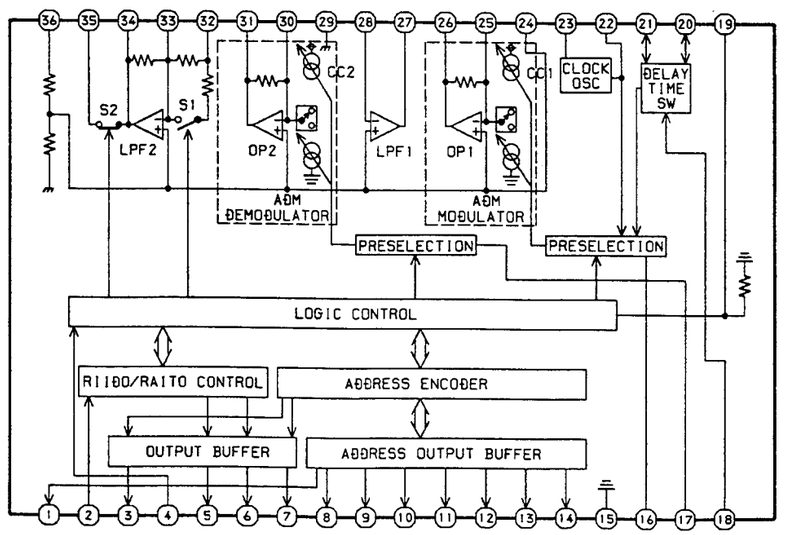
TRUTH TABLE

CONTROL INPUT				ON SWITCH
INHIBIT	C	B	A	
0	0	0	0	X0
0	0	0	1	X1 (TP)
0	0	1	0	X2 (TU)
0	0	1	1	X3 (PH)
0	1	0	0	X4
0	1	0	1	X5 (CD)
0	1	1	0	X6
0	1	1	1	X7
1	X	X	X	—

IC,TA7343AP

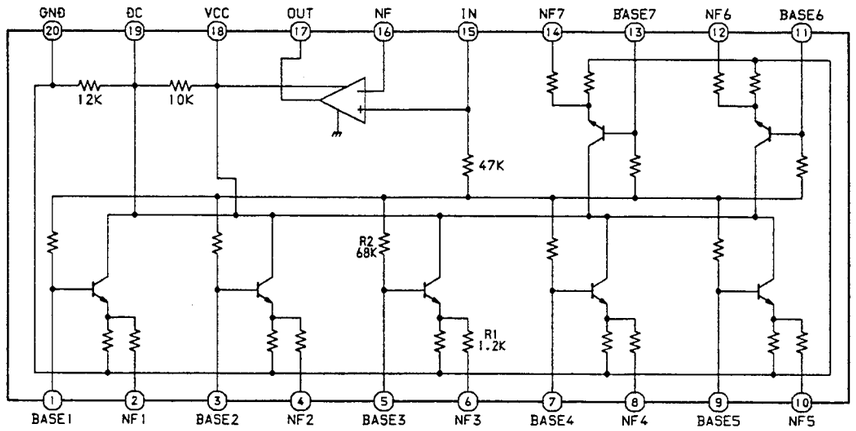


IC,M50195P

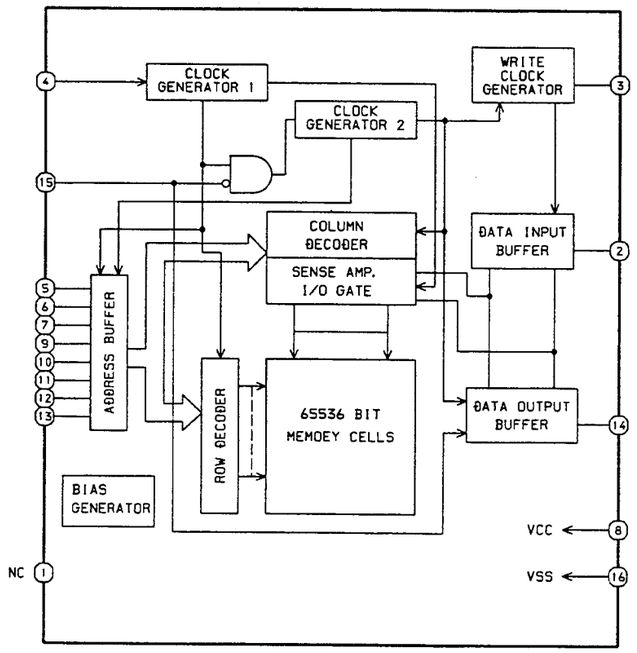


IC BLOCK DIAGRAM – 2

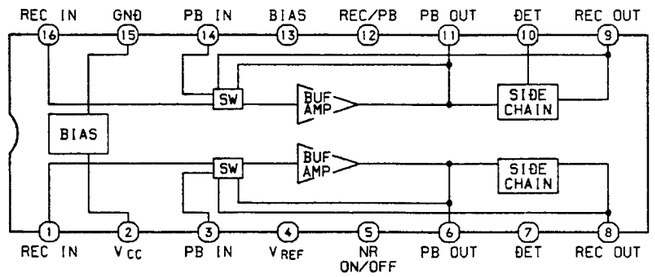
IC,LA3607



IC,LM3364K – 15



IC,HA12134A

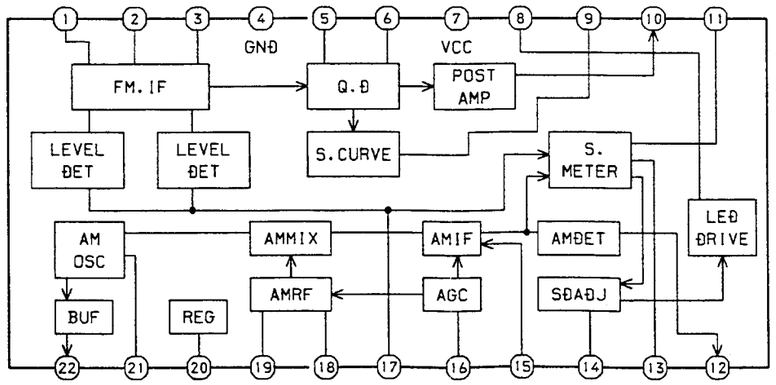


IC DESCRIPTION/IC BLOCK DIAGRAM – 3

IC,LC65204A – 4927 (GEQ SPECTRUM ANALAYZER CONTROLLER)

Pin No.	Pin Name	I/O	Description
1 〜 8	AD0 〜 AD7	I	Spectrum analyzer control input terminal.
9	AV+	I	A/D converter reference voltage(positive).
10	AV−	I	A/D converter reference voltage(negative).
11	VSS	—	GND
12	OSC1	—	3.9MHz oscillation circuit.
13	OSC2	—	
14	VDD	—	Power supply.
15	$\overline{RES}$	I	Reset input.
16	X1	—	It is connected to VDD.
17	X2	—	Not used.
18	TEST	—	It is connected to GND.
19	PFO	O	Power ON/OFF control.
20	GEQ (DATA)	O	Serial data for the shift register GEQ IC.
21	GEQ (CLK)	O	Serial data clock signal for the shift register GEQ IC.
22	RMC	I	Remote control input terminal.
23 〜 40	Sa 〜 Si	O	FL display segment output.
41	SUR2	—	Not used.
42	SUR1	—	
43 〜 50	G1 〜 G8	O	FL display digit output.
51	DUTY	—	Not used.
52	−VP	I	FL display power(negative).

IC,LA1265G



IC, LC6568H – 4645

Pin No.	Pin Name	I/O	Description
1～5 60～63	G1 〉 G9	O	FL display digit outputs. Active "H". Key scan outputs.
6	VOL UP	O	Motor volume up and down output.
7	VOL DOWN	O	
8	D. VOL	O	LED display segment output. Active "H".
9	O-$\overline{\text{F. MUTE}}$	O	Function IC (BU4094B) Muting output. Active "L".
10 〉 15	I-K0 〉 I-K5	I	Key return inputs.
16	I-$\overline{\text{RMC}}$	I	Remote control signal input.
17	I-$\overline{\text{HOLD}}$	I	Power failure detection input. "H" input switches off all the output ports and then sets the unit to the HOLD mode (clock stopped and memory maintained.) Goes "H" when the over-current detector in the Power amplifier operates.
18	STROBE	O	Outputs STROBE signal to the shift Registor IC (BU4094B). Deck display control.
19	LED CLK	O	Outputs a clock signal to the shift Registor IC (BU4094B). Deck display control.
20	DATA	O	Outputs data to the PLL IC (LC7218) in the tuner. Outputs data to the sift Resistor IC (BU4094B). Deck display control.
21	PLL CLK	O	Outputs a clock signal to the PLL IC (LC7218) in the tuner.
22	PLL CE	O	Chip enable output for the PLL IC (LC7218) in the tuner section.
23	I-$\overline{\text{TUNE}}$	I	Tuning detection input from the tuner. Goes "L" when the tuner is tuned to a signal. Receives auto scan and auto stop signals, and drives the tuning display.
24	I-TMBASE	I	Clock pulse input for clock counting. 8Hz is input from the tuner PLL IC (LC7218).
25	I-$\overline{\text{STEREO}}$	I	Goes "L" when the tuner receives a stereo signal.
26	O-PB1	O	Play input signal select output. Goes "H" when a tape playing in DECK 1. Goes "H" in the record mode and when the power is turned on.
27	O-$\overline{\text{REC}}$	O	Dolby NR recording/playback switching output. Goes "L" in the record mode. As this pin goes "H" during dubbing, the Dolby NR circuit is set to the playback mode.
28	O-RMT	O	Record muting output. Goes "H" when muting signals.
29	O-$\overline{\text{BIAS}}$	O	Bias oscillation on/off output. Goes "L" in the record and dubbing modes.
30	TEST	–	Connected to GND.
31	Vss	–	GND.
32	OSC1	–	Pins to generate a 3.9MHz clock signal.
33	OSC2	–	
34	$\overline{\text{RST}}$	I	Reset input which goes "L" when AC Power is supplied.
35	$\overline{\text{S. I/O}}$	I/O	I/O port to synchronize the CD player. Works as DECK-CD SYNC I/O and AMP auto-function input.
36	O-$\overline{\text{BBE}}$	O	BBE on/off output. "L" output turns BBE on.
37	O-T-BAS	O	T-BASS on/off output. Goes "L" when T-BASS is on.
38	O-MUTE	O	Muting output.

Pin No.	Pin Name	I/O	Description
39	$\overline{\text{F. TP}}$	O	"L" when TAPE.
40	$\overline{\text{F. TU}}$	O	"L" when TUNER.
41	$\overline{\text{F. PH}}$	O	"L" when PHONO.
42	$\overline{\text{F. AUX}}$	O	"L" when AUX.
43	$\overline{\text{F. CD}}$	O	"L" when CD.

A, B and C signals are generated with the function display control output and D138-D145 as an amplifier input switching (function) control output.

Function
IC(BU4094B)control signal

NO.	C	B	A	FUNCTION
1	L	L	H	TAPE
2	L	H	L	TUNER
3	L	H	H	PHONO
4	H	L	L	AUX
5	H	L	H	CD
6	H	H	H	MUTE

Pin No.	Pin Name	I/O	Description
44	O-$\overline{\text{POWER}}$	O	Power on/off output. Goes "L" when the power is turned on.
45	O-HSP	O	Output "H" in the high-speed dubbing mode and "L" in other modes. When power is turned on, this pin outputs "L" for initialization.
46	O-$\overline{\text{MOTOR}}$	O	DECK 1/2 motor drive output. "L" output drives the motor. Outputs "L" for one second when the power is turned on. Outputs "H" when DECK1/2 are in the stop mode.
47	O-$\overline{\text{SOL PL1}}$	O	DECK 1 PLAY solenoid output. Active "L".
48	O-$\overline{\text{SOL FR1}}$	O	DECK 1 FR solenoid output. Active "L".
49	O-$\overline{\text{SOL PL2}}$	O	DECK 2 PLAY solenoid output. Active "L".
50	O-$\overline{\text{SOL FR2}}$	O	DECK 2 FR solenoid output. Active "L".
51	Vp	–	Negative power supply pin for the FL drive.
52 〉 59	a 〉 h	O	FL display segment outputs. Active "H".
64	VDD	–	Power supply.

IC, YM3428

Pin No.	Pin Name	I/O	Description
1	VDD	—	+5 V Power supply
2	CV	O	A/D converter reference voltage(+2.5V)output
3	RO	O	R -ch output(D/A converter analog output)
4	LO	O	L -ch output(D/A converter analog output)
5	CH	O	Capacitor external terminal for sample hold
6	AIN	I	Analog signal input terminal(input with CV voltage reference)
7	AGND	—	Ground at A/D and D/A converters
8	VSS	—	System ground of this LSI in digital system
9	/IC	*I	Reset terminal
10 11	XO XI	O I	Connects crystal oscillator (XI is clock input terminal for using external clock.)
12 13	MD1 MD0	*I *I	Mode setting terminal
14 15 16	SCI A0 DIN	I I I	Data shift clock input terminal for using microcomputer Address/data identification signal input terminal for using microcomputer Data input terminal for using microcomputer

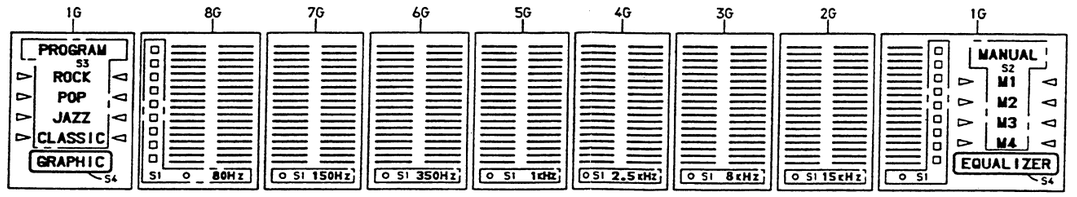
Pull up resistors are built in the terminals marked with *.

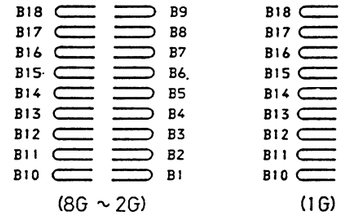
IC, LC7218

Pin No.	Pin Name	I/O	Description
1 24	X-IN X-OUT	–	A crystal oscillator (7.2MHz) is connected between these pins.
2 3 4	CE DATA CLK	I	When a key is operated, a signal is transmitted from the CPU (microprocessor). Active "H".
5 〉 8	—— 〉 ——	–	Open.
9	T. BASE	O	Outputs a reference clock signal (8Hz) for the clock.
10 12	——	–	Open.
11	BEAT	O	Beat select signal output.
13	——	–	Open.
14	FM AUTO-H	O	Outputs "H" when FM stereo switching is set to AUTO.
15 16	—— ——	–	Open.
17	FM-L	O	Outputs "L" when an FM broadcast is received.
18	AM IN	I	Receives the AM local oscillator frequency signal.
19	FM IN	I	Receives the FM local oscillator frequency signal.
20	VDD	–	5V power supply pin.
21	E. O.	O	PLL charge pump output.
22	——	–	Open.
23	GND	–	GND.

FL201 (SPEANA)

GRID ASSIGNMENT

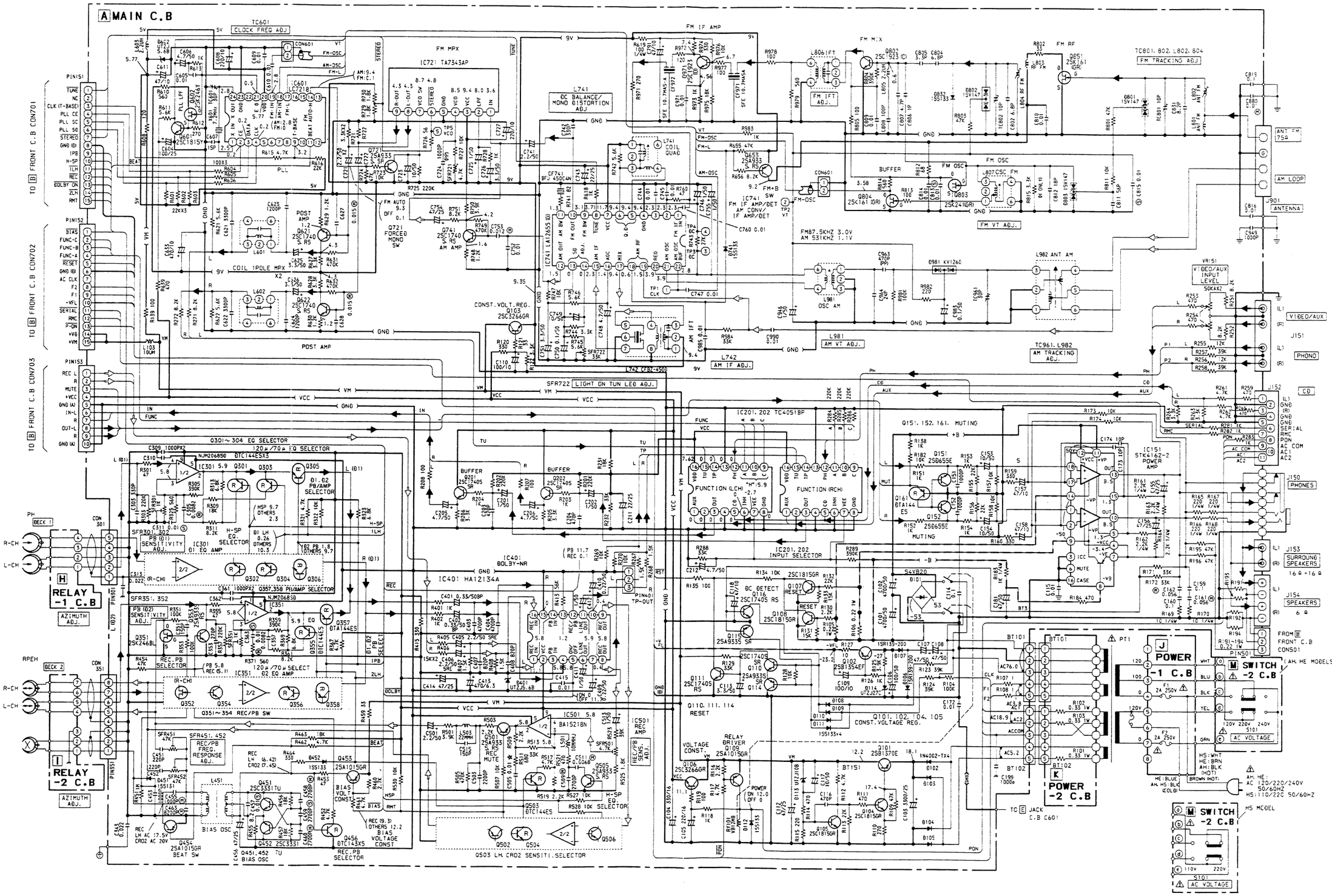




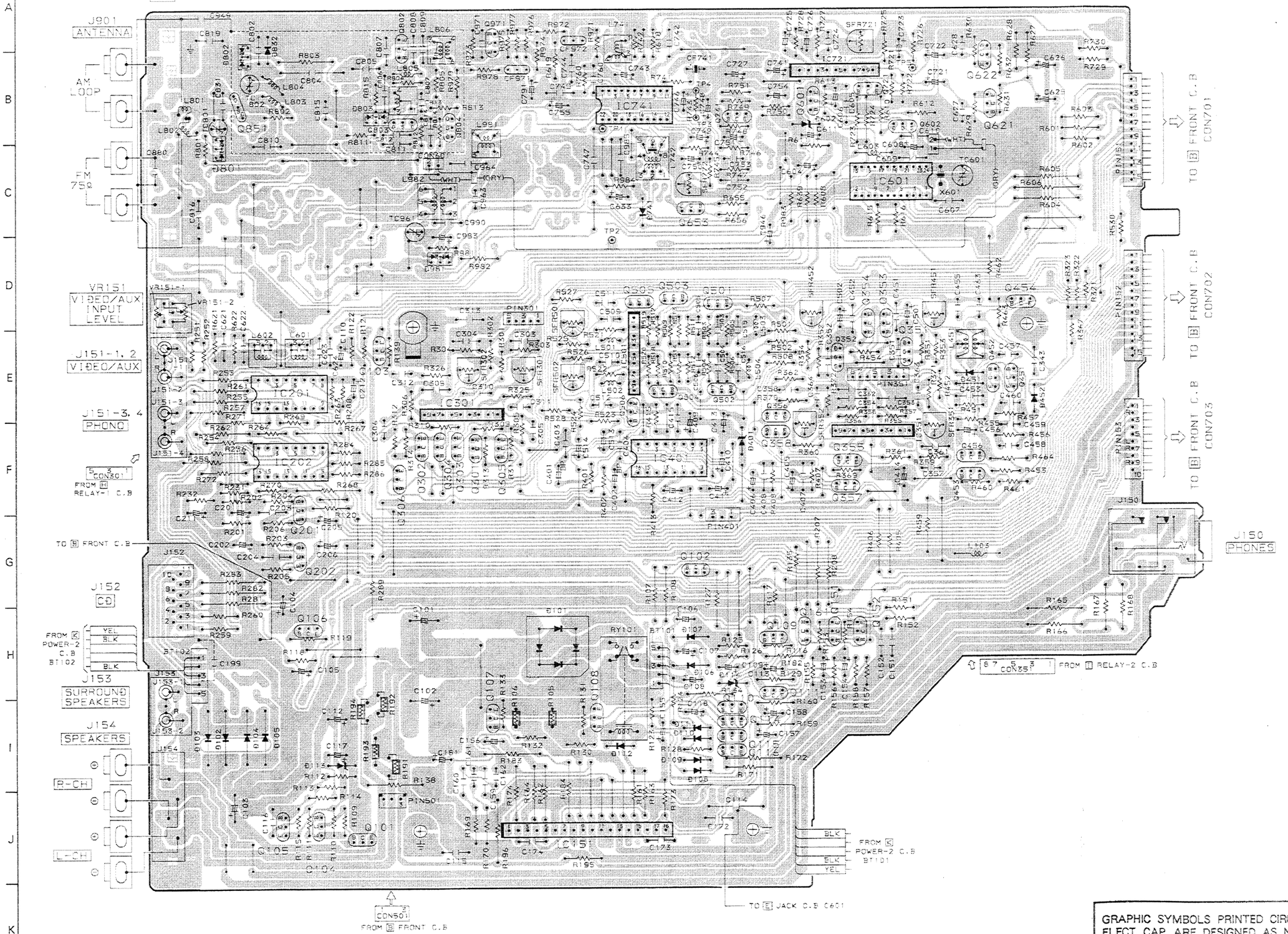
ANODE CONNECTION

	8G	7G	6G	5G	4G	3G	2G	1G
P1	B1	B1	B1	B1	B1	B1	B1	▷ (CLASSIC) ◁
P2	B2	B2	B2	B2	B2	B2	B2	▷ (JAZZ) ◁
P3	B3	B3	B3	B3	B3	B3	B3	▷ (POP) ◁
P4	B4	B4	B4	B4	B4	B4	B4	▷ (ROCK) ◁
P5	B5	B5	B5	B5	B5	B5	B5	▷ (M4) ◁
P6	B6	B6	B6	B6	B6	B6	B6	▷ (M3) ◁
P7	B7	B7	B7	B7	B7	B7	B7	▷ (M2) ◁
P8	B8	B8	B8	B8	B8	B8	B8	▷ (M1) ◁
P9	B9	B9	B9	B9	B9	B9	B9	–
P10	B10	B10	B10	B10	B10	B10	B10	B10
P11	B11	B11	B11	B11	B11	B11	B11	B11
P12	B12	B12	B12	B12	B12	B12	B12	B12
P13	B13	B13	B13	B13	B13	B13	B13	B13
P14	B14	B14	B14	B14	B14	B14	B14	B14
P15	B15	B15	B15	B15	B15	B15	B15	B15
P16	B16	B16	B16	B16	B16	B16	B16	B16
P17	B17	B17	B17	B17	B17	B17	B17	B17
P18	B18	B18	B18	B18	B18	B18	B18	B18
P19	–	–	–	–	–	–	–	S4
P20	–	–	–	–	–	–	–	S2
P21	–	–	–	–	–	–	–	S3
P22	–	–	–	–	–	–	–	EQUALIZER
P23	–	–	–	–	–	–	–	GRAPHIC
P24	S1	S1	S1	S1	S1	S1	S1	S1

SCHEMATIC DIAGRAM – 1 (MAIN : AH, HE, HS)



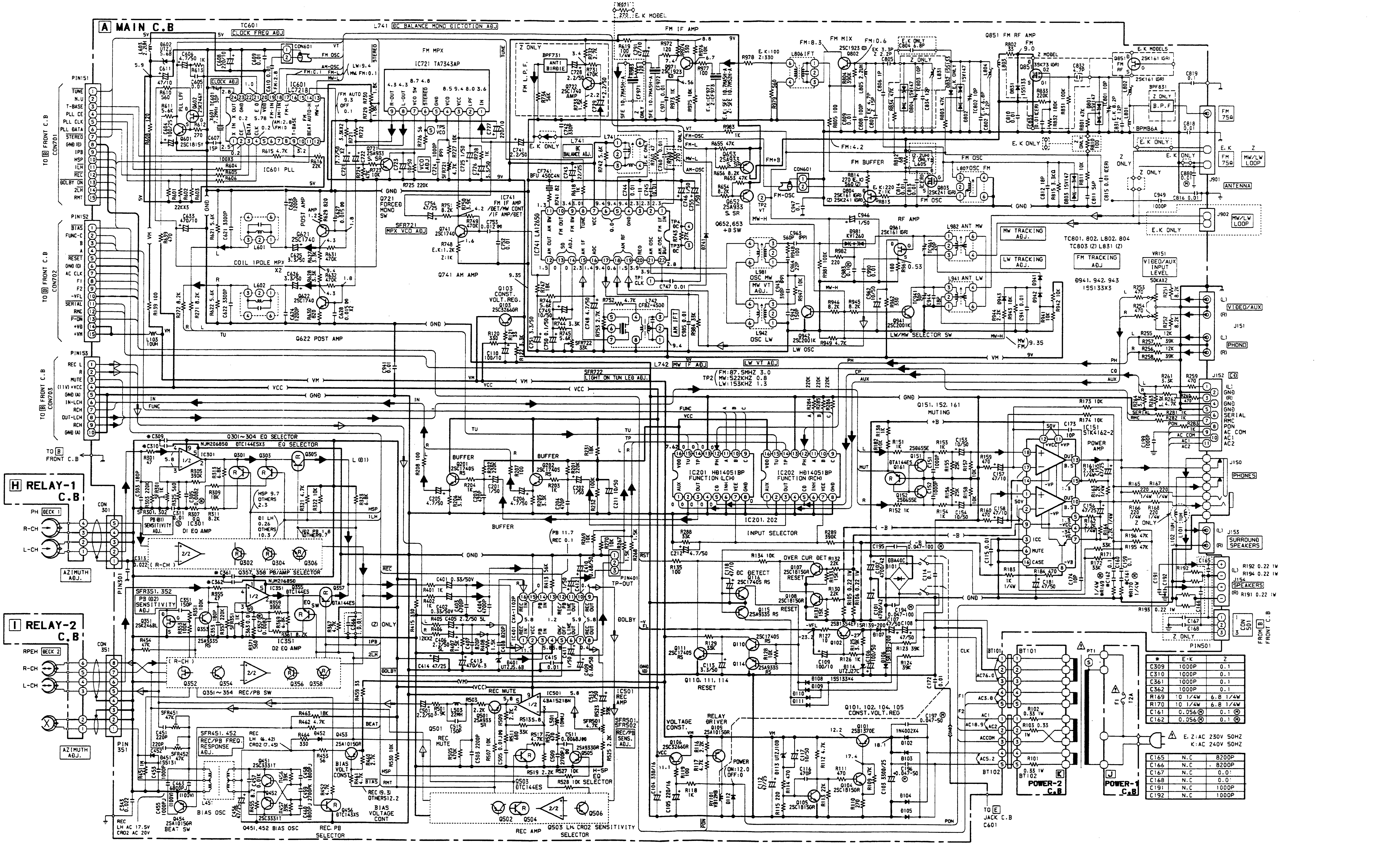
A MAIN C.B



GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

SCHEMATIC DIAGRAM – 2 (MAIN : E, K, Z)



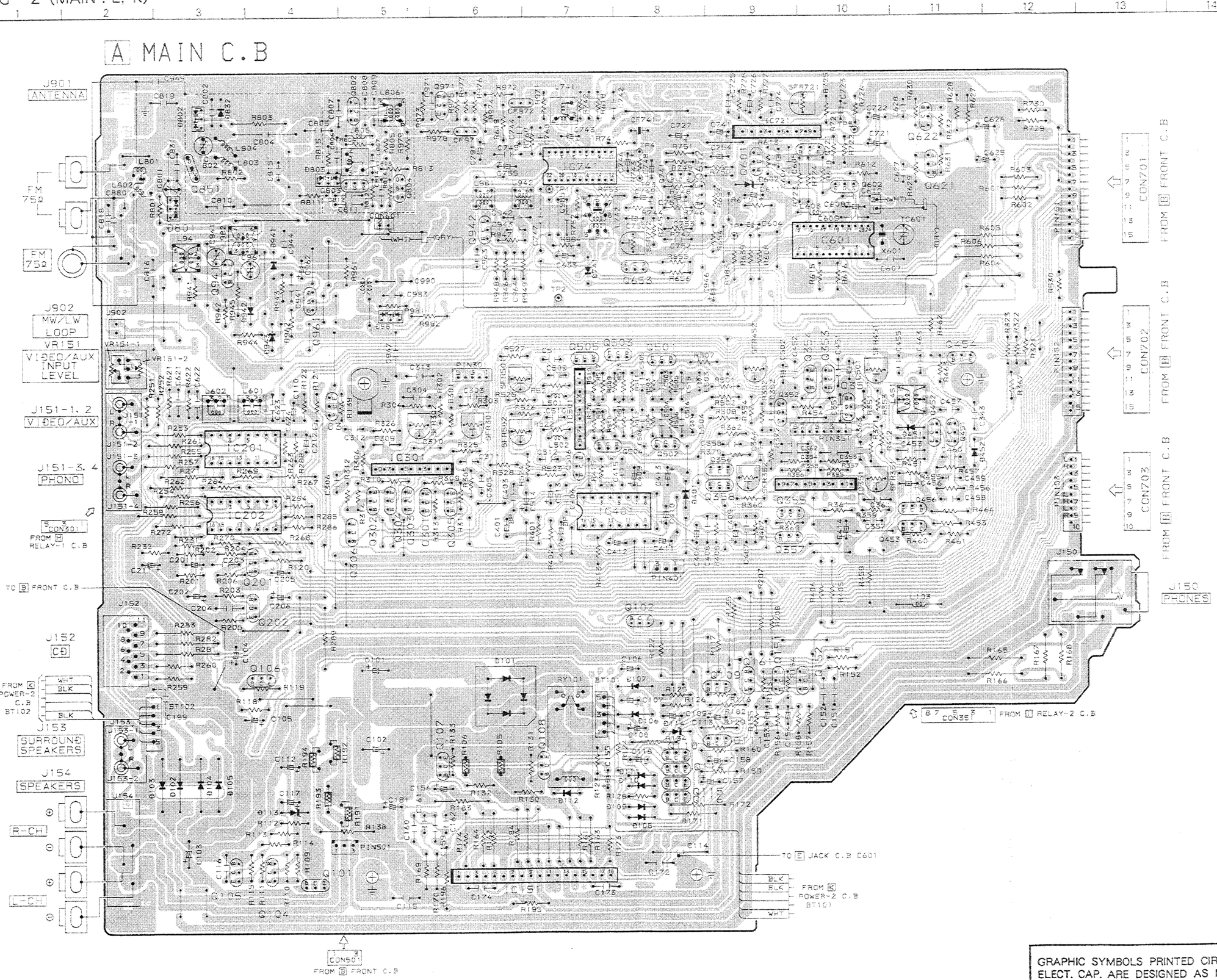
A MAIN C.B
H RELAY-1 C.B
I RELAY-2 C.B
K POWER-2 C.B
J POWER-1 C.B
TO B FRONT C.B CON701
TO B FRONT C.B CON702
TO B FRONT C.B CON703
IC601 PLL
IC721 TA7343AP
FM MPX
FM IF AMP
FM MIX
Q851 FM RF AMP
FM BUFFER
FM OSC
RF AMP
Q622 POST AMP
Q741 AM AMP
IC741 LA1265G
IC201, 202 INPUT SELECTOR
IC151 STK4162-2 POWER AMP
Q151, 152, 161 MUTING
Q110, 111, 114 RESET
Q101, 102, 104, 105 CONST. VOLT. REG
IC301 D1 EQ AMP
IC351 D2 EQ AMP
Q301~304 EQ SELECTOR
Q357, 358 PB/AMP SELECTOR
Q351~354 REC/PB SW
Q451, 452 BIAS OSC
IC401 CXA-1102P
IC501 REC AMP
Q503 LH. CRO2 SENSITIVITY SELECTOR
J901 ANTENNA
J902 MW/LW LOOP
J151 VIDEO/AUX PHONO
J152 CD
J150 PHONES
J153 SURROUND SPEAKERS
J154 SPEAKERS
TO E JACK C.B C601
E, Z:AC 230V 50HZ
K:AC 240V 50HZ

*	E·K	Z
C309	1000P	0.1
C310	1000P	0.1
C361	1000P	0.1
C362	1000P	0.1
R169	10 1/4W	6.8 1/4W
R170	10 1/4W	6.8 1/4W
C161	0.056(M)	0.1 (M)
C162	0.056(M)	0.1 (M)

C165	N.C	8200P
C166	N.C	8200P
C167	N.C	0.01
C168	N.C	0.01
C191	N.C	1000P
C192	N.C	1000P

WIRING – 2 (MAIN : E, K)

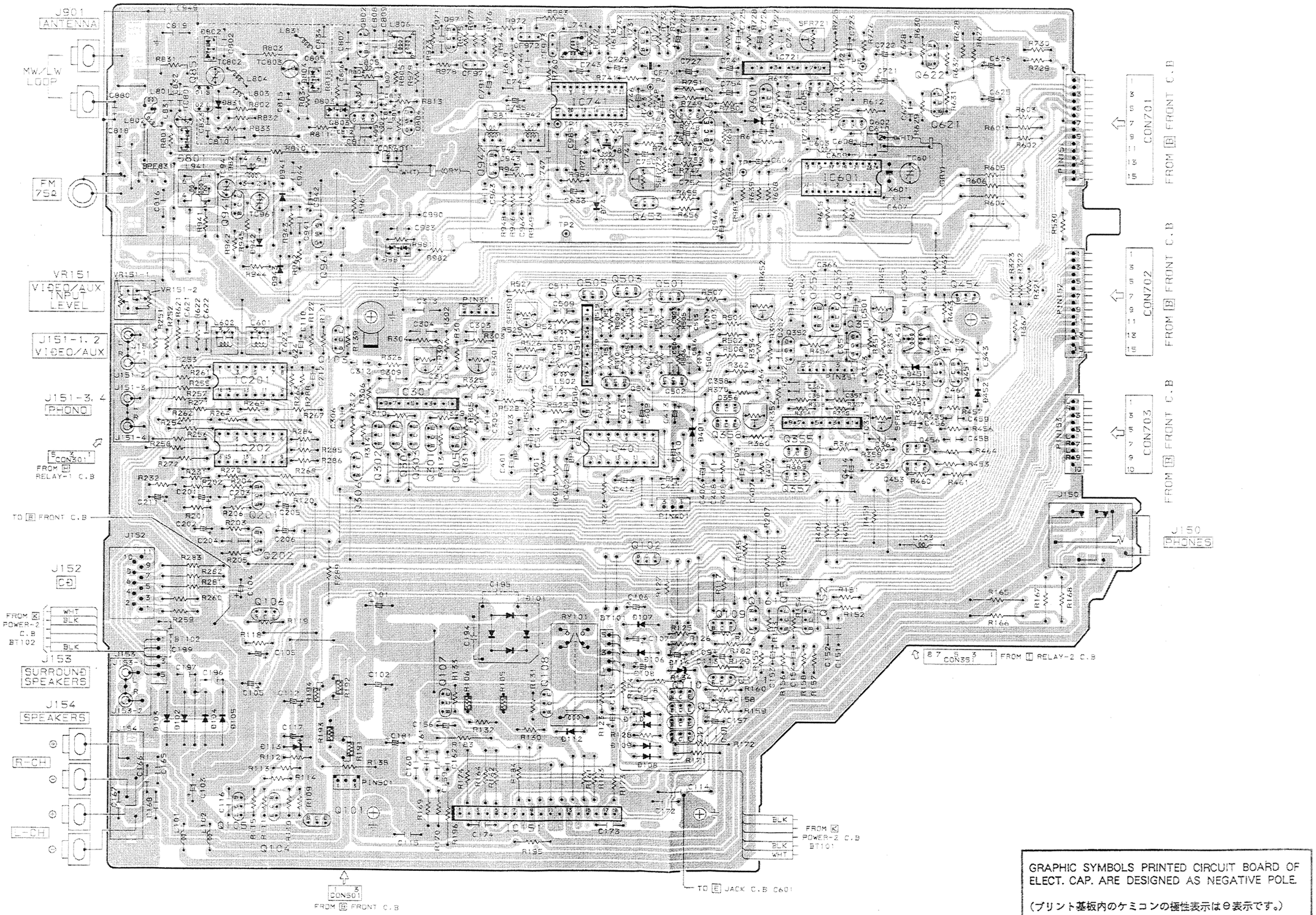
A MAIN C.B



GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

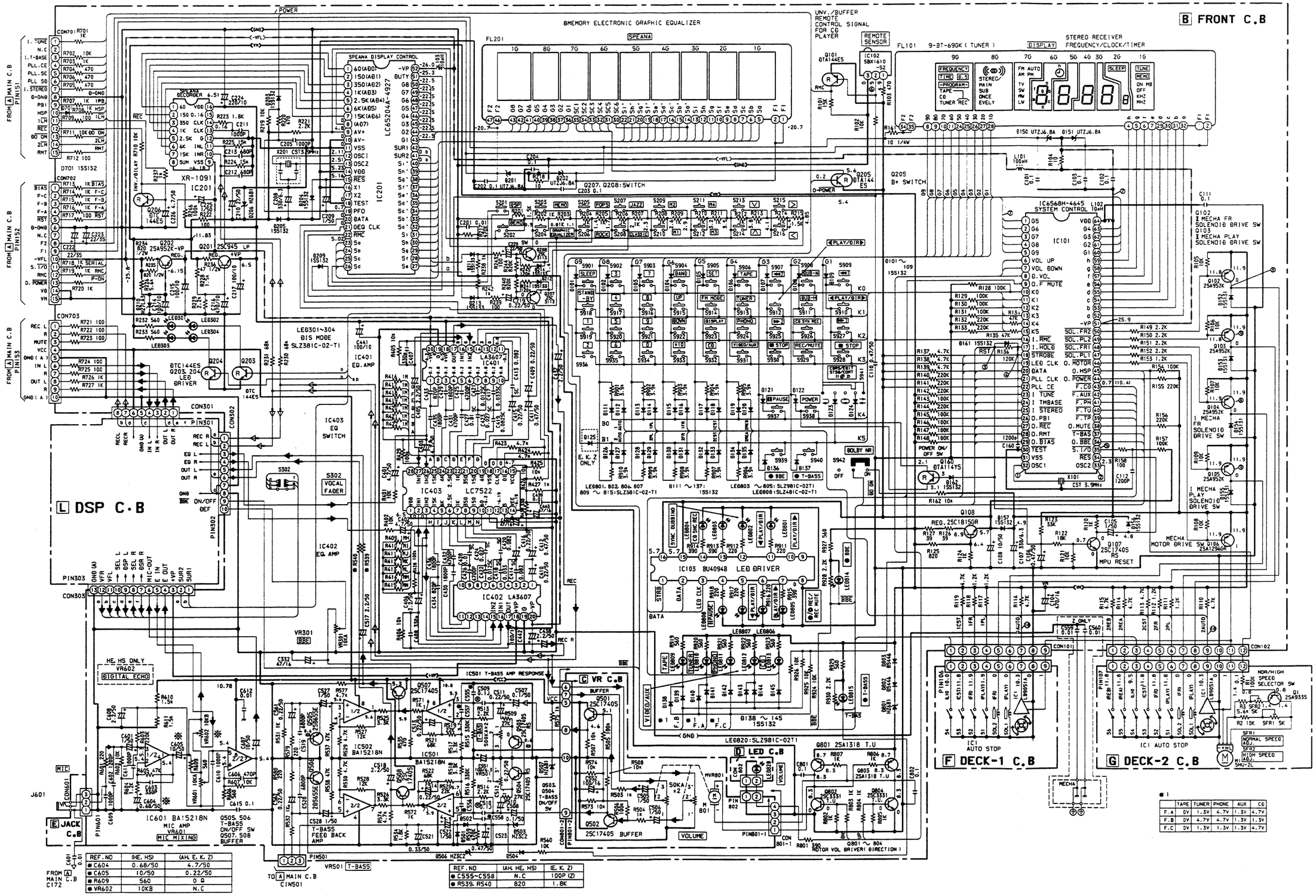
A MAIN C.B

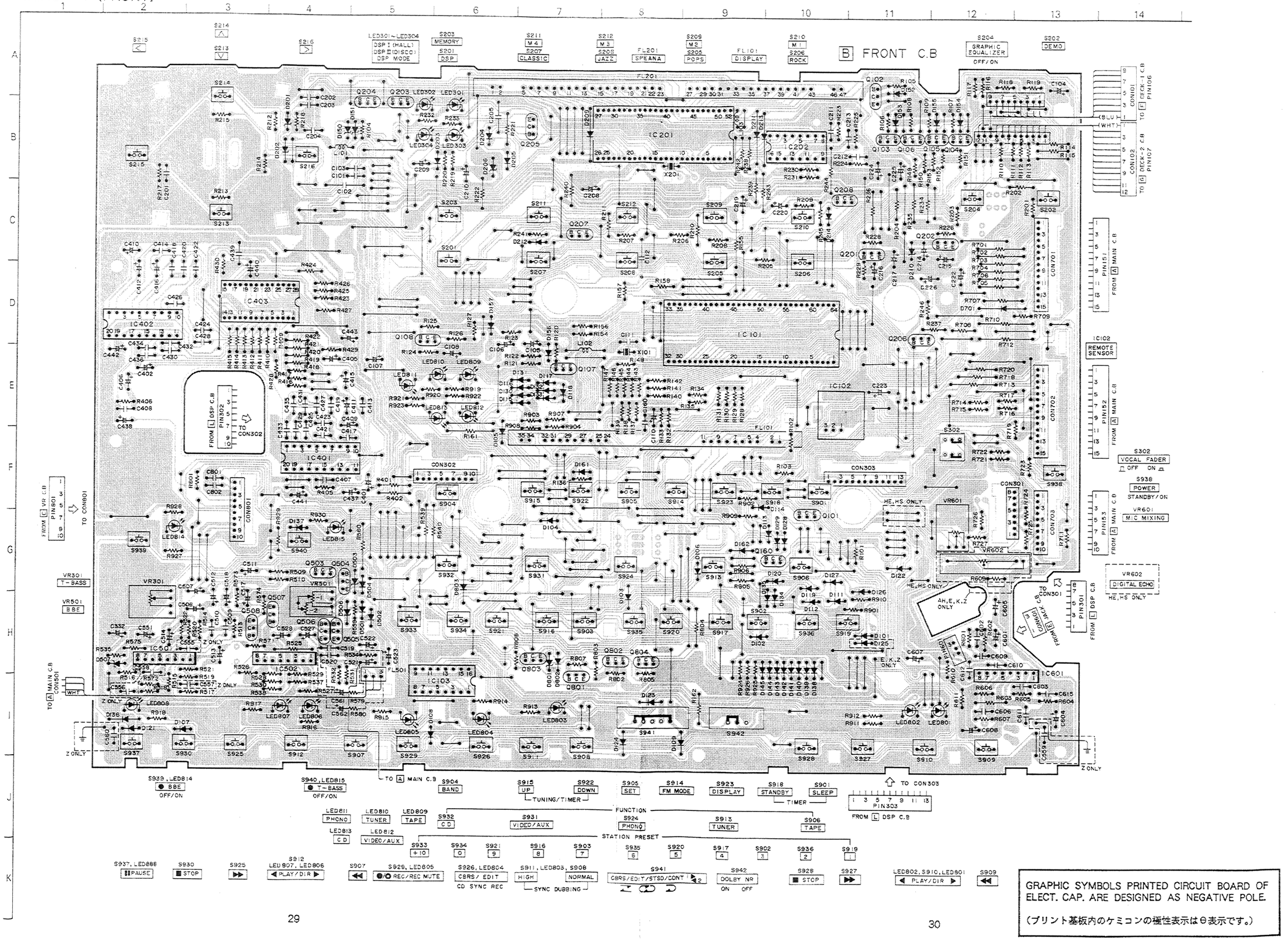


GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示は⊖表示です。)

SCHEMATIC DIAGRAM – 3 (FRONT)



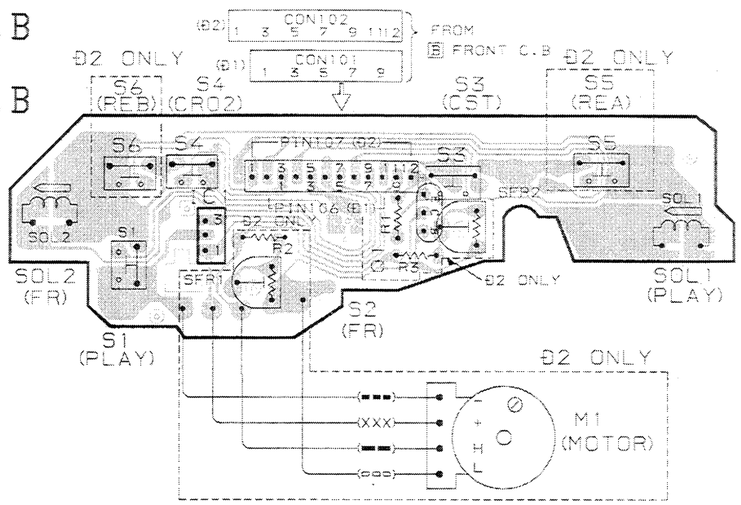


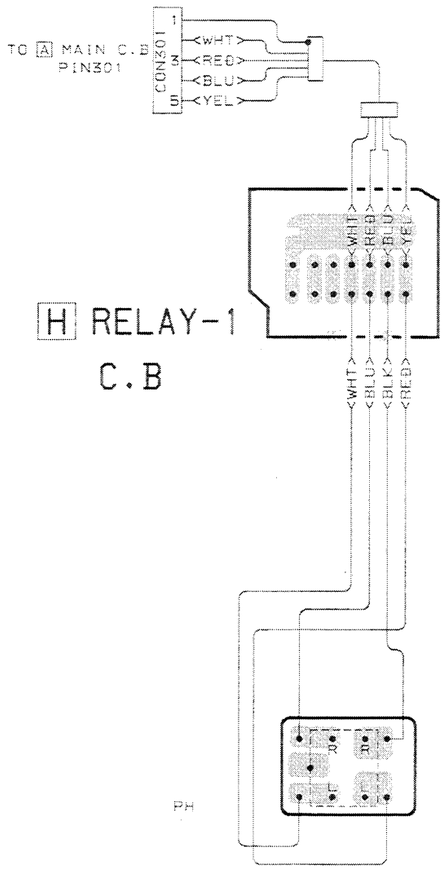
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

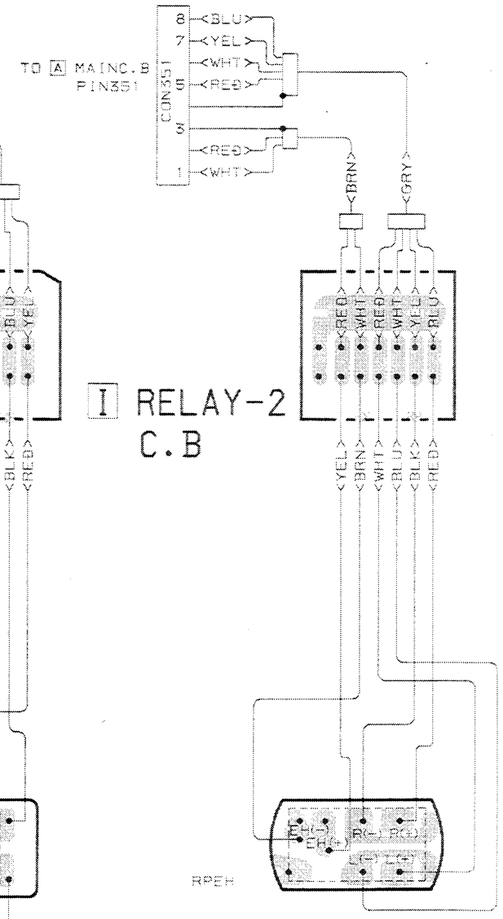
(プリント基板内のケミコンの極性表示はθ表示です。)

F ĐECK-1 C.B

G ĐECK-2 C.B

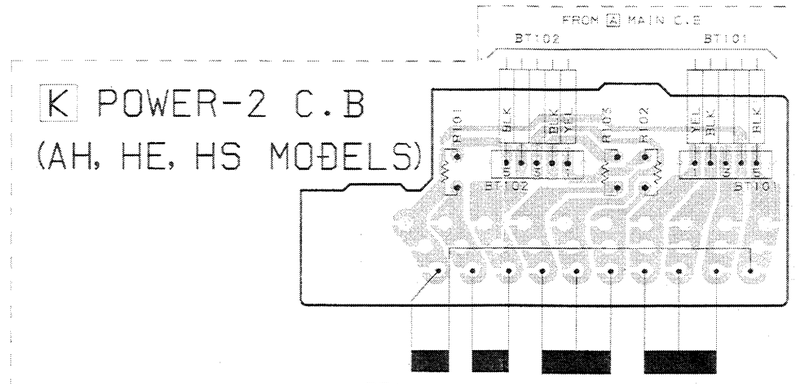






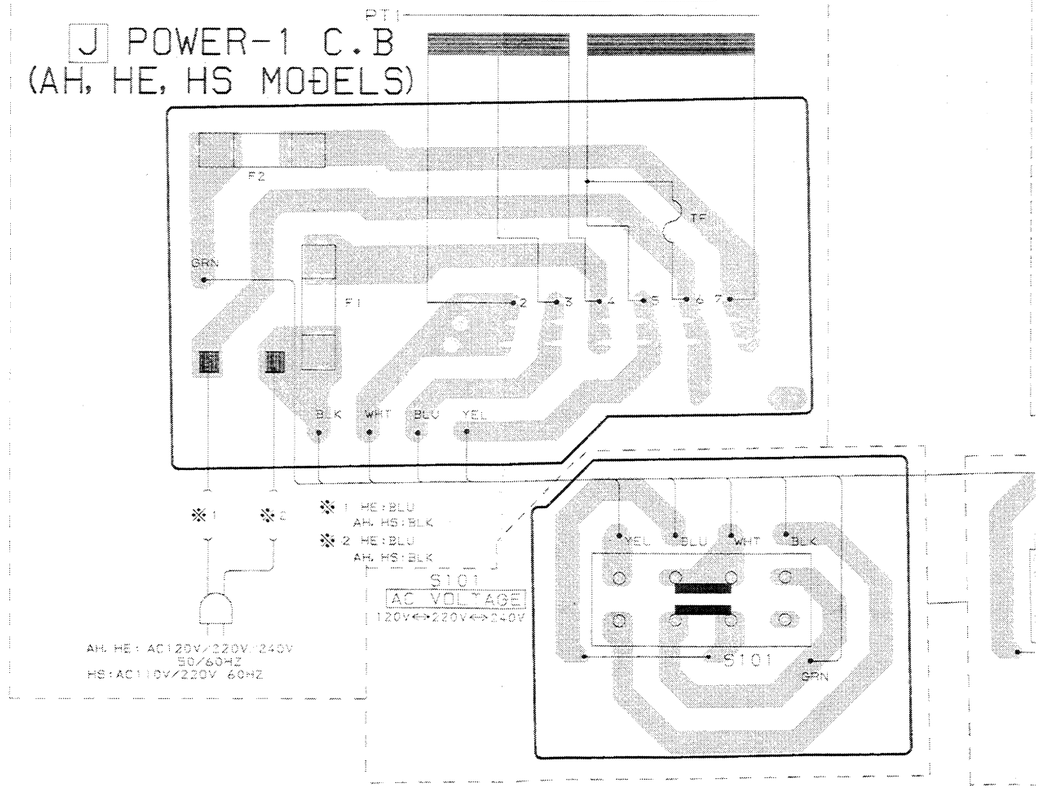
H RELAY-1 C.B

I RELAY-2 C.B



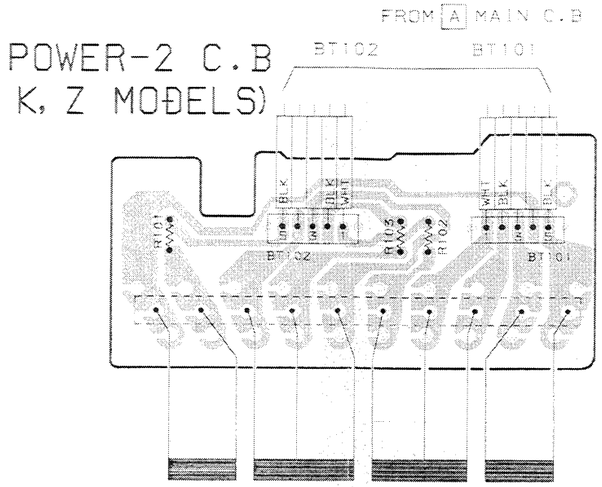
K POWER-2 C.B (AH, HE, HS MOĐELS)

J POWER-1 C.B (AH, HE, HS MOĐELS)



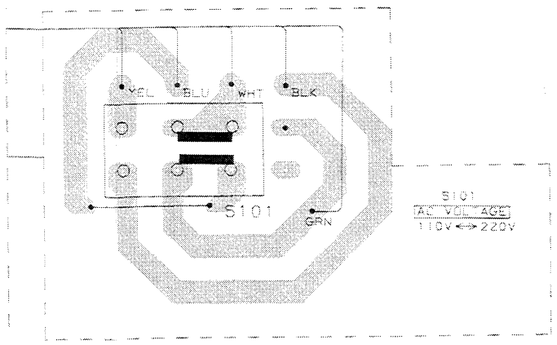
M AC VOLTAGE C.B (AH, HE MOĐELS)

K POWER-2 C.B (E, K, Z MODELS)



J POWER-1 C.B (E, K, Z MODELS)

E. Z MODELS AC230V 50HZ
K MODEL AC240V 50HZ



M AC VOLTAGE C.B (HS MODEL)

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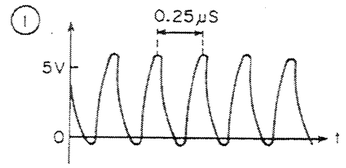
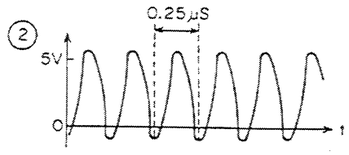
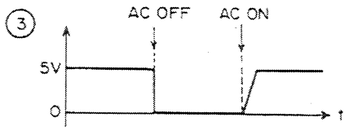
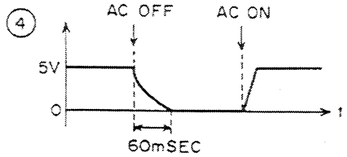
(プリント基板内のケミコンの極性表示はθ表示です。)

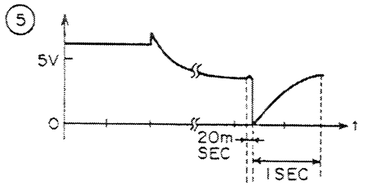
WAVE FORM

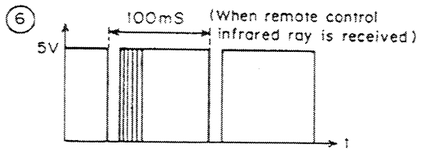


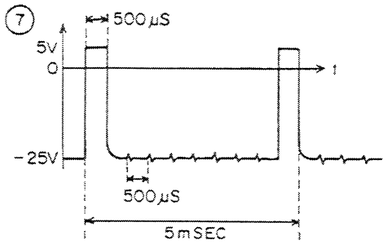


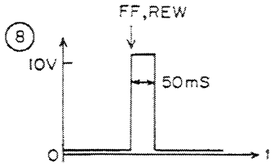


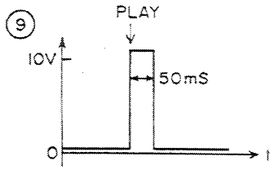


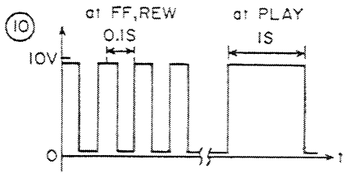


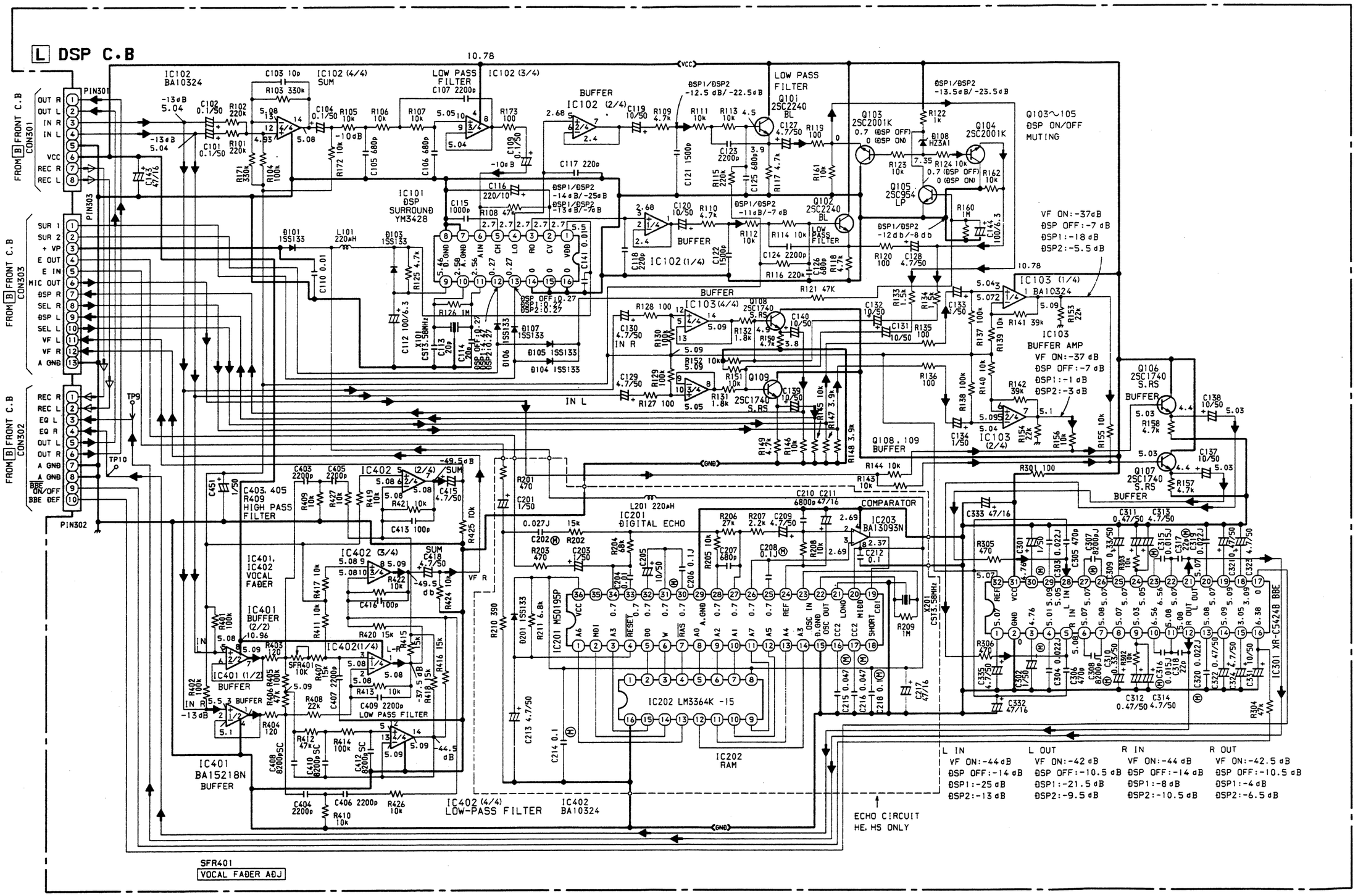




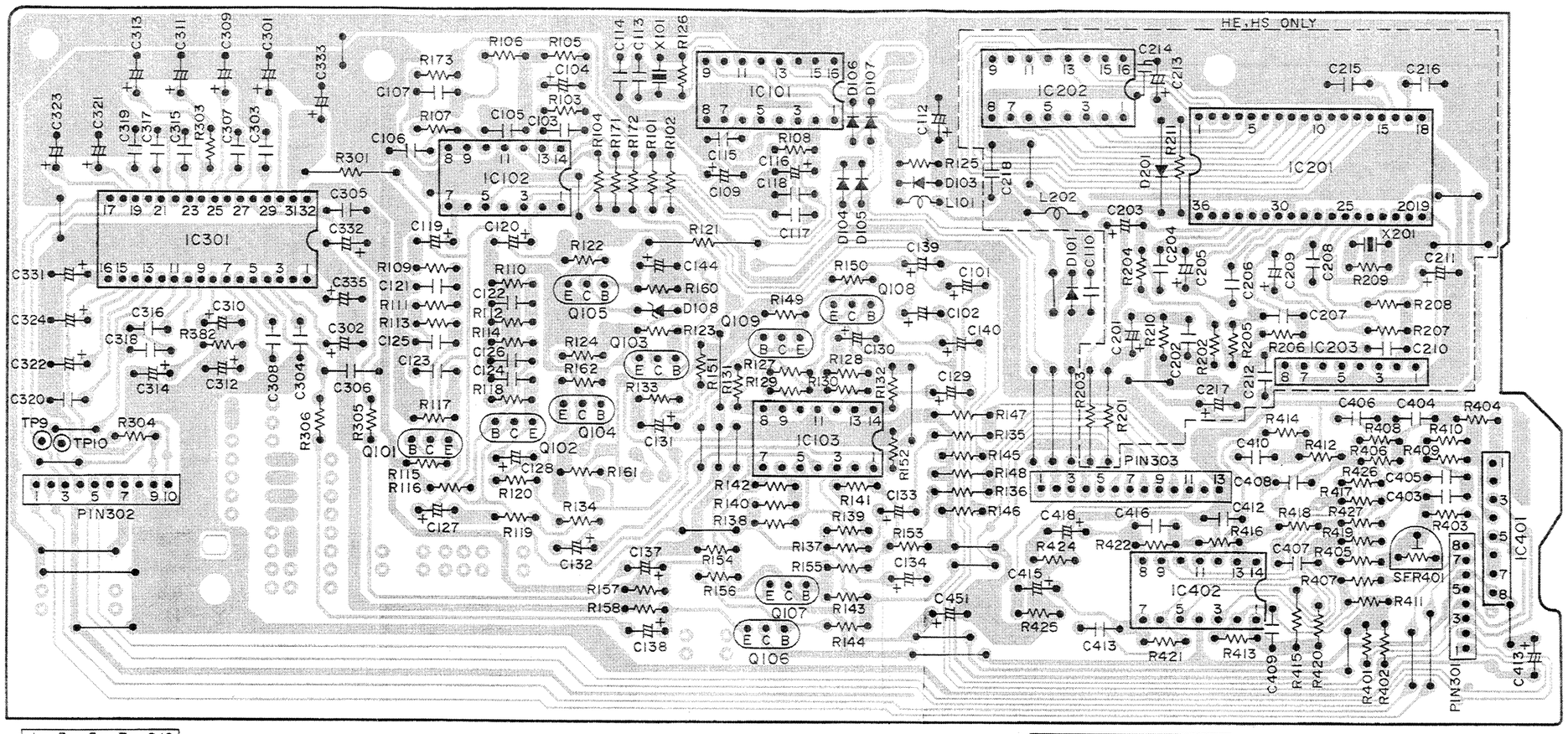




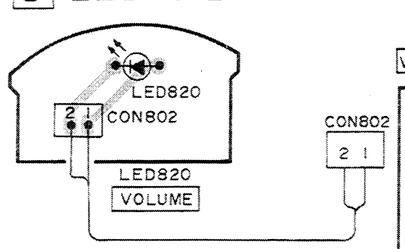



L DSP C.B
FROM B FRONT C.B CON301
FROM B FRONT C.B CON303
FROM B FRONT C.B CON302
PIN301
PIN303
PIN302
TP9
TP10
IC102 BA10324
IC102 (4/4) SUM
LOW PASS FILTER C107 2200p
IC102 (3/4)
BUFFER IC102 (2/4)
IC102 (1/4)
IC101 DSP SURROUND YM3428
IC103(4/4)
IC103 (1/4) BA10324
IC103 BUFFER AMP
VF ON:-37dB
DSP OFF:-7 dB
DSP1:-18 dB
DSP2:-5.5 dB
IC103 (2/4)
Q101 2SC2240 BL
Q102 2SC2240 BL
Q103 2SC2001K
Q104 2SC2001K
Q105 2SC954 LP
Q106 2SC1740 S.RS
Q107 2SC1740 S.RS
Q108 2SC1740 S.RS
Q109 2SC1740 S.RS
Q103~105 DSP ON/OFF MUTING
Q108.109 BUFFER
IC201 DIGITAL ECHO
IC202 LM3364K -15
IC202 RAM
IC203 BA13093N COMPARATOR
IC401 BA15218N BUFFER
IC401 (1/2) BUFFER
IC401 BUFFER (2/2)
IC401, IC402 VOCAL FADER
IC402 (3/4) SUM
IC402 (4/4) LOW-PASS FILTER
IC402 BA10324
IC402(1/4)
IC402 (2/4) SUM
C403, 405 R409 HIGH PASS FILTER
C407 2200p LOW PASS FILTER
C409 2200p LOW PASS FILTER
C116 220/10
C118 220p
C119 10/50
C120 10/50
C121 1500p
C122 1500p
C123 2200p
C124 2200p
C125 680p
C126 680p
C127 4.7/50
C128 4.7/50
C130 4.7/50 IN R
C131 10/50
C132 10/50
C133 1/50
C134 1/50
C135 10/50
C136 10/50
C137 10/50
C138 10/50
C139 10/50
C140 10/50
C141 0.01
C143 47/16
C144 100/6.3
C145 47/16
C201 1/50
C202 0.027J
C203 50
C204 0.01
C205 10/50
C206 0.1J
C207 680p
C208 0.1J
C209 4.7/50
C210 C211 6800p 47/16
C212 0.1
C213 4.7/50
C214 0.1
C215 0.047
C216 0.047
C217 47/16
C218 0.1
C301 1/50
C302 1/50
C303 0.022J
C304 0.022J
C305 470p
C306 470p
C307 8200pJ
C308 8200pJ
C309 0.33/50
C310 0.33/50
C311 0.47/50
C312 0.47/50
C313 4.7/50
C314 4.7/50
C315 0.015J
C316 0.015J
C317 22p
C318 22p
C319 0.022J
C320 0.022J
C321 4.7/50
C322 0.47/50
C323 4.7/50
C324 4.7/50
C332 47/16
C333 47/16
C334 1/50
C335 4.7/50
C451 1/50
L101 220μH
L201 220μH
X101 CS13.58MHz
X201 CS13.58MHz
SFR401 10K
SFR401 VOCAL FADER ADJ
ECHO CIRCUIT HE, HS ONLY
IN L
IN R
VF R
-13dB 5.04
-10dB
-49.5dB
-44.5 dB
-37.5 dB
10.78
10.96
L IN
VF ON:-44dB
DSP OFF:-14dB
DSP1:-25dB
DSP2:-13dB
L OUT
VF ON:-42dB
DSP OFF:-10.5 dB
DSP1:-21.5 dB
DSP2:-9.5 dB
R IN
VF ON:-44 dB
DSP OFF:-14 dB
DSP1:-8 dB
DSP2:-10.5 dB
R OUT
VF ON:-42.5 dB
DSP OFF:-10.5 dB
DSP1:-4 dB
DSP2:-6.5 dB

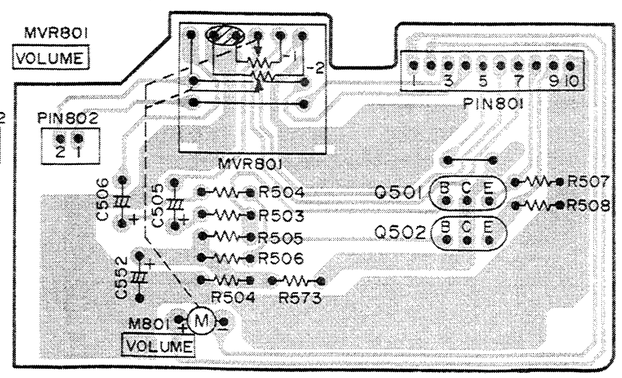
L DSP C.B



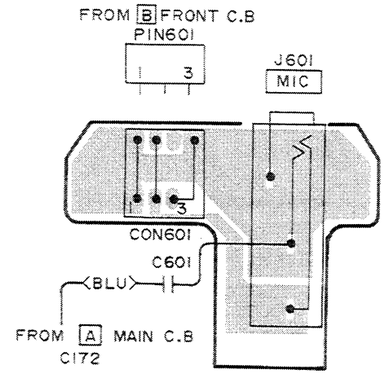
D LED C.B



C VR C.B



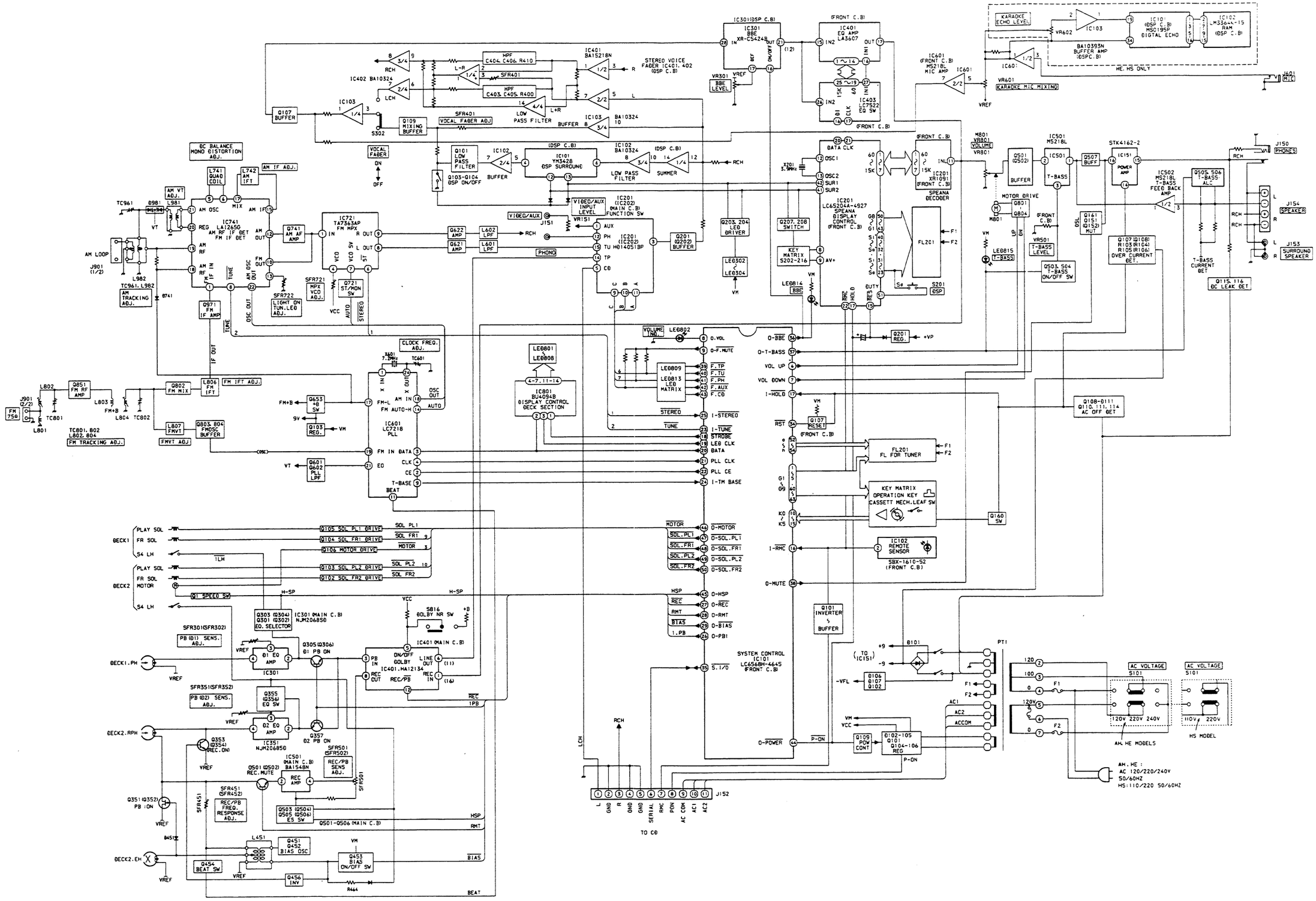
E JACK C.B



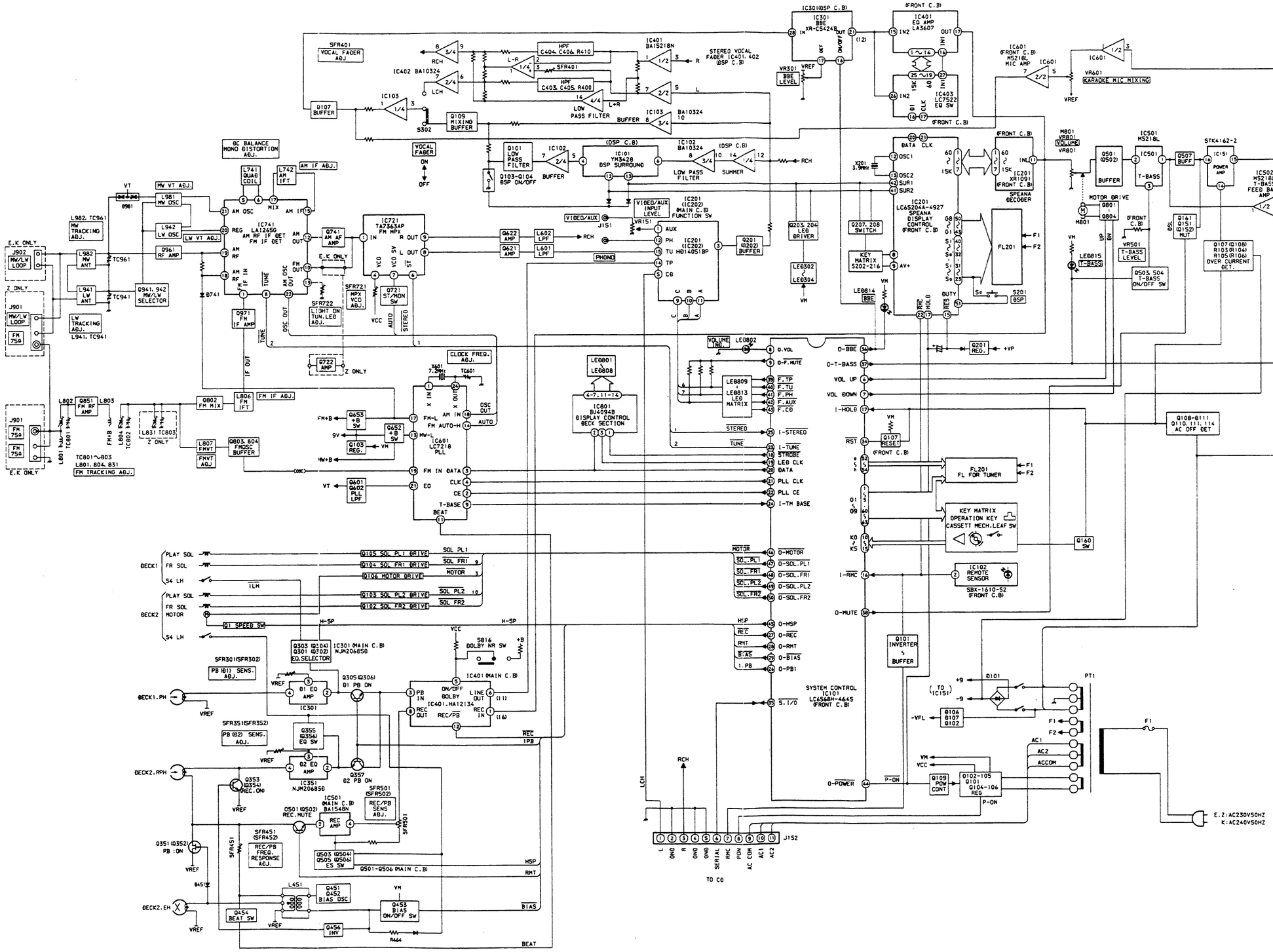
GRAPHIC SYMBOLS PRINTED CIRCUIT BOARD OF ELECT. CAP. ARE DESIGNED AS NEGATIVE POLE.

(プリント基板内のケミコンの極性表示はθ表示です。)

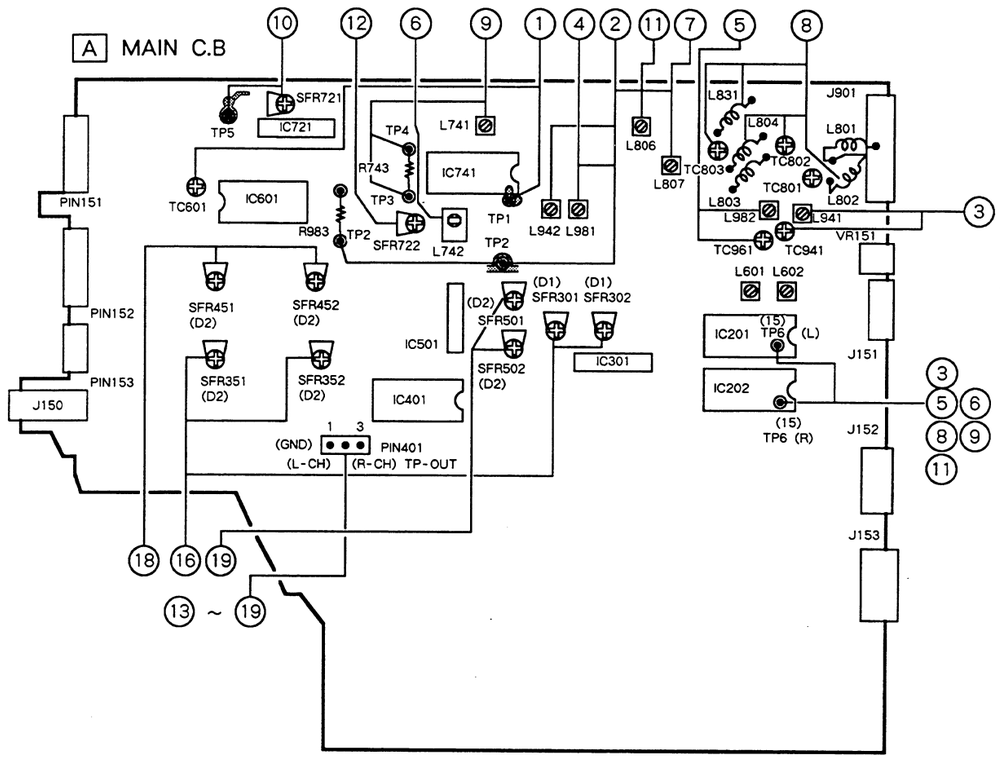
BLOCK DIAGRAM – 1 (AH, HE, HS)

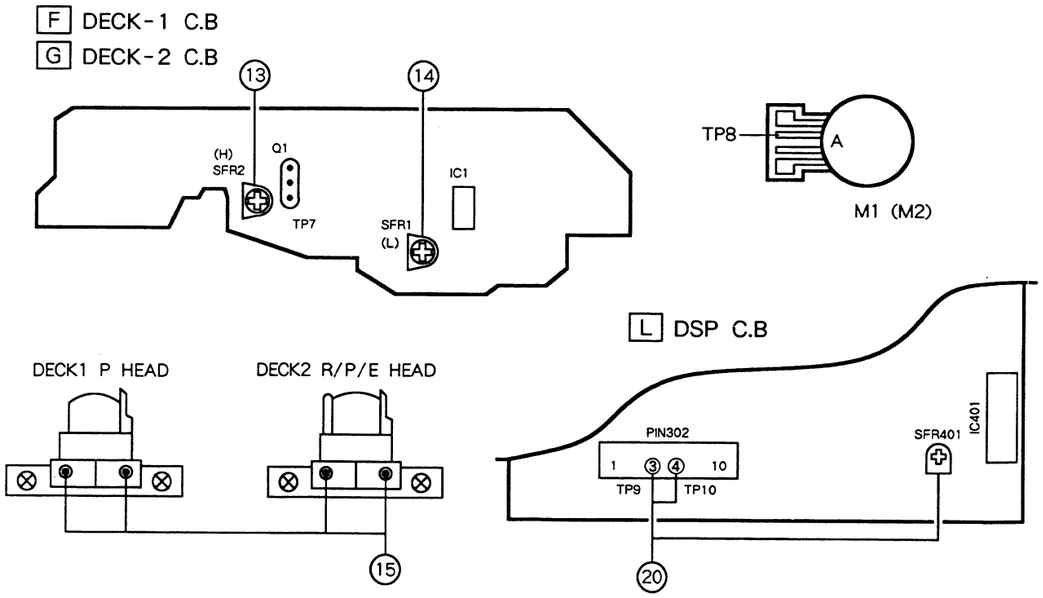


BLOCK DIAGRAM – 2 (E, K, Z)



ADJUSTMENT





Initialized Condition
- GEQ VR : Center
- BBE SW : OFF
- MIC VR : Minimum
- BALANCE VR : Center
- VR : Minimum
- DOLBY NR SW : OFF
- T-BASS : OFF
- Standard Input Level : 1V, 0dB (AMP)
  -14.3dB, 0VU (AUX IN, DECK)

(TUNER SECTION)

1. Clock Frequency Adjustment
   Settings : • Test point : TP1 (CLK)
   • Adjustment location : TC601
   Method : Set to AM 1602kHz (AH, HE, HS), 1611kHz (E, K, Z) adjust so that the test point becomes 2052kHz ± 0.01kHz (AH, HE, HS), 2061kHz ± 0.01kHz (E, K, Z).

2. LW VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L942
   Method : Set to LW 144kHz (E, K, Z) and adjust so that the test point becomes 1.0V ± 0.05V.

3. LW Tracking Adjustment
   Settings : • Test point : TP6 (IC201, 202, PIN15)
   L941 ····· 144kHz (E, K, Z)
   TC941 ····· 290kHz (E, K, Z)

4. AM VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L981
   Method : Set to AM 531kHz (AH, HE, HS), 522kHz (E, K, Z) and adjust so that the test point becomes 1.1V ± 0.05V (AH, HE, HS), 0.8V ± 0.05V (E, K, Z)

5. AM Tracking Adjustment
   Settings : • Test point : TP6 (IC201, 202, PIN15)
   L982 ····· 603kHz
   TC961 ····· 1404kHz

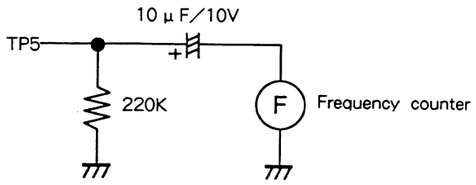
6. AM IF Adjustment
   Settings : • Test point : TP6 (IC201, 202, PIN15)
   L742 ····· 450kHz

7. FM VT Adjustment
   Settings : • Test point : TP2 (VT)
   • Adjustment location : L807
   Method : Set to FM 87.5MHz and adjust L807 so that the test point becomes 3.0V ± 0.05V.

8. FM Tracking Adjustment
   Settings : • Test point : TP6 (IC201, 202, PIN15)
   TC801, TC802(AH, HE, HS, E, K) ····· 108MHz
   TC803(Z) ····· 108MHz
   L802, L804 (AH, HE, HS, E, K) ····· 87.5MHz
   L831(Z) ····· 87.5MHz

9. DC Balance/MONO Distortion Adjustment
   Settings : • Test point : TP3, TP4 (DC balance)
   TP6 (IC201, 202, PIN15) (Distortion)
   • Adjustment location : L741
   Method : Set to FM 98.0MHz and adjust L741 so that TP3 and TP4 output becomes 0V ± 0.02V. Next, adjust L741 so that the distortion becomes minimum (less than 0.8%).

10. MPX VCO Adjustment
    Settings : • Test point : TP5
    • MODE SW : STEREO
    • Adjustment location : SFR721
    Method : Connect a capacitor and a resistor as below. Set to FM 98.0MHz and adjust so that the frequency at test point becomes 38kHz ± 0.05kHz.



11. FM IF Adjustment
    Settings : • Test point : TP6 (IC201, 202, PIN15)
    L806 ····· 10.7MHz

12. Light on tuning LED Adjustment
    Settings : • Adjustment location : SFR722
    • Input level : 20dB
    Method : Set to FM 98.0MHz and adjust TUNING LED to light on by SFR722. After that, LED goes out by 2dB down.

(DECK SECTION)

13. High Speed Adjustment
    Settings : • Test tape : TTA-100 (TTA-111S)
    • Test point : TP-OUT (PIN401)
    • Adjustment location : SFR2 "H"
    Method : Play back the test tape, and make the high speed condition to be shorted between TP7 and TP8. Adjust for 5990Hz ± 20Hz.

14. Normal Speed Adjustment
    Settings : • Test tape : TTA-100 (TTA-111S)
    • Test point : TP-OUT (PIN401)
    • Adjustment location : SFR1 "L" (DECK-1)
    Method : Play back the test tape, on FWD PLAY (DECK-1) adjust for 3000Hz ± 7Hz.

15. Head Azimuth Adjustment (DECK-1, DECK-2)
    Settings : • Test tape : TTS-310 (TTA-317E, SCC-1429)
    • Test point : TP-OUT (PIN401)
    • Adjustment location : Head azimuth adjustment screw
    Method : Play back the 10kHz signal of the test tape and adjust so that the output becomes maximum. Next, perform on each FWD PLAY and REW PLAY mode.

16. PB Sensitivity Adjustment (DECK-1, DECK-2)
    Settings : • Test tape : TTS-200 (TCC-130, TTA-161)
    • Test point : TP-OUT (PIN401)
    • Adjustment location :
    SFR301 (DECK-1, Lch)
    SFR302 (DECK-1, Rch)
    SFR351 (DECK-2, Lch)
    SFR352 (DECK-2, Rch)
    Method : Play back the test tape and adjust so that the output becomes 388mV.

17. PB Frequency Response Check (DECK-1, DECK-2)
Settings : • Test tape : TTS-310 (TTA-317E, SCC-1429)
• Test point : TP-OUT (PIN401)
Method : Play back the 315Hz and 10kHz signals of the test tape and check that the output of the 10kHz signal is 0dB ± 2dB with respect to that of the 315Hz signal.

18. REC/PB Frequency Response Adjustment (DECK-2)
Settings : • Test tape : TTA-600 (TTA-119K)
• Test point : TP-OUT (PIN401)
• Input signal : 1kHz/10kHz (VIDEO/AUX IN)
• Adjustment location : SFR451 (Lch)
SFR452 (Rch)
Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 27mV. Record and play back the 1kHz and 10kHz signals and adjust so that the output level of 10kHz signal is 0dB ± 0.5dB for 1kHz signal.

19. REC/PB Sensitivity Adjustment (DECK-2)
Settings : • Test tape : TTA-600 (TTA-119K)
• Test point : TP-OUT (PIN401)
• Input signal : 1kHz (VIDEO/AUX IN)
• Adjustment location : SFR501 (Lch)
SFR502 (Rch)
Method : Apply a 1kHz signal and adjust attenuator so that the level at the TP-OUT is 27mV. Record and play back the 1kHz signal and adjust SFR501 and SFR502 so that the output level is 27mV ± 0.5dB.

20. VOCAL FADER Adjustment
Settings : • Test point : TP9, TP10 (PIN302) output
AUX/PHONO input
• Input frequency : 1kHz
• Input Level : 280mV (− 11dB)
• Adjustment location : SFR401
Method : ①VOCAL FADER SW ON
②Then reduce VTVM level − 20dB down.
③Adjust SFR401 become output level (Lch, Rch) to minimum.
④VOCAL FADER SW ON and OFF the difference must be more than 25dB.

PRACTICAL SERVICE FIGURE

< TUNER SECTION >
< FM SECTION >

IHF Sensitivity:	2 ± 6dB (AH, HE, HS, E, K)
(THD 3%)	7 ± 6dB (Z)
	(at 87.5/98.0/108.0MHz)
S/N 50dB Quieting Sensitivity:	
	30 ± 5dB (AH, HE, HS, E, K)
	(at 87.5/98.0/108.0MHz)
(S/N 46dB)	32 ± 6dB (Z)
	(at 87.5/98.0/108.0MHz)
Signal to Noise Ratio:	(MONO.)
	More than 68dB
	(at 98.0MHz)
	(STEREO)
	More than 65dB
	(AH, HE, HS, E, K)
	(at 98.0MHz)
	More than 60dB (Z)
	(at 98.0MHz)
Distortion:	(MONO.)
	Less than 0.6%
	(at 98.0MHz)
	(STEREO)
	Less than 0.8%
	(at 98.0MHz)
Stereo Separation:	More than 27dB
Intermediate Frequency:	10.7MHz

< MW (AM) Section >

Sensitivity:	56 ± 6dB (at 603kHz)
(S/N 20dB)	52 ± 6dB (at 999kHz)
	51 ± 6dB (at 1404kHz)
Distortion:	Less than 1.5% (at 999kH)
Intermediate Frequency:	450kHz

< LW SECTION > (E,K,Z)

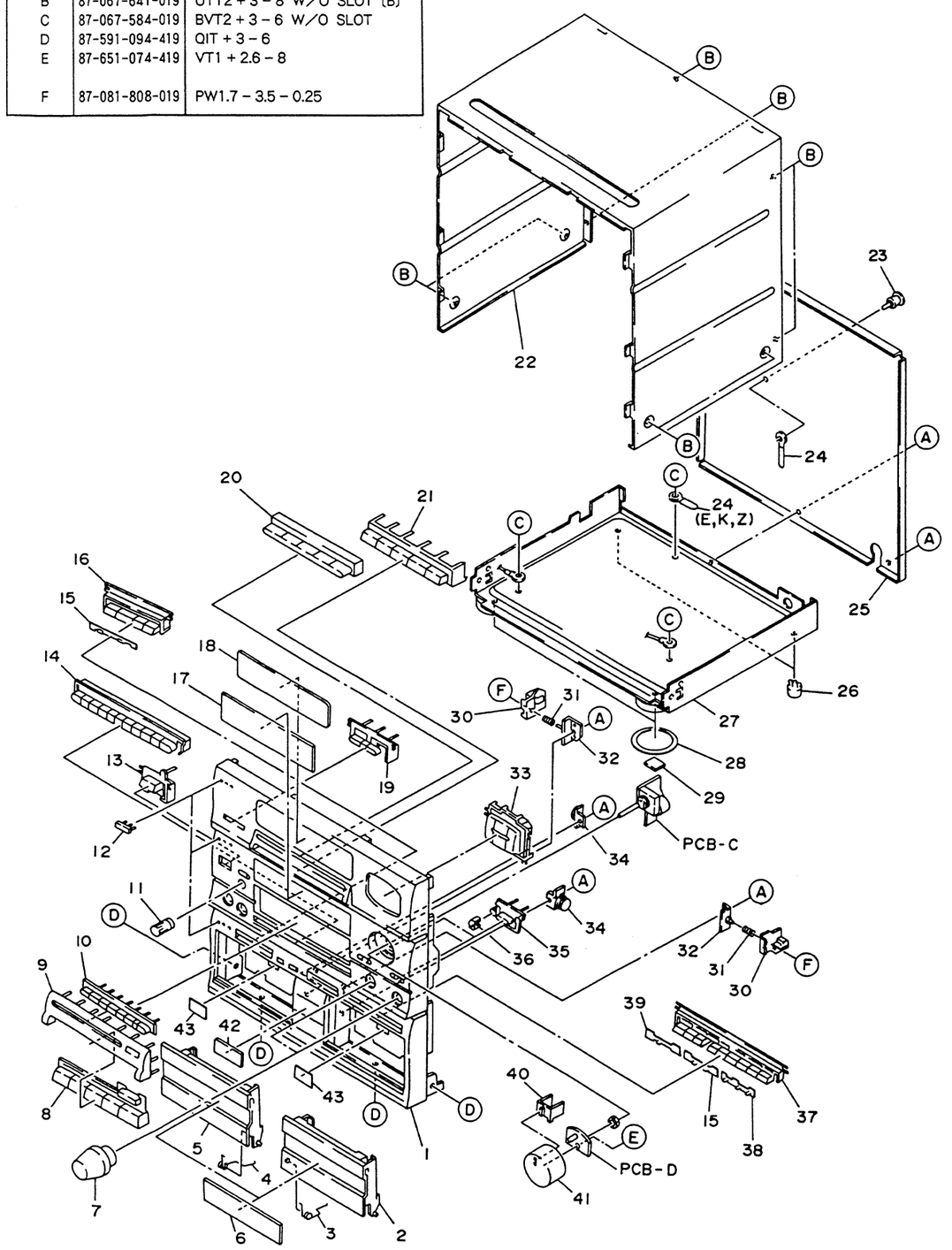
Sensitivity:	66 ± 5dB (at 144kHz)
(S/N 20dB)	63 ± 5dB (at 198kHz)
	62 ± 5dB (at 290kHz)
Distortion:	Less than 1.5% (at 198kHz)
Intermediate Frequency:	450kHz

< DECK SECTION >

PB Output Level:	3.2V ± 1.5dB (SP OUT)
	(TTS − 200 (TCC − 130,
	TTA − 161))
REC/PB Output Level:	1.7V ± 2.0dB
	(SP OUT, 2V)
Distortion(REC/PB):	Less than 2% (NORM., CrO2)
Noise(PB):	Less than 120mV/200mV
	(DOLBY B NR ON/OFF
	CrO2,VR MAX.)
	Less than 160mV/300mV
	(DOLBY B NR ON/OFF
	NORM., VR MAX.)
Erasing Ratio:	More than 60dB (125Hz)
Channel Separation:	More than 32dB (1kHz, 0VU)
Recording Bias Frequency:	85kHz
Noise(REC/PB):	Less than 14mV/30mV
	(DOLBY B NR ON/OFF
	NORM, SP OUT, VR 2V)
	Less than 11.5mV/20mV
	(DOLBY B NR ON/OFF
	CrO2, SP OUT, VR 2V)
Crosstalk:	More than 60dB (1kHz, 0VU)
Wow&Flutter(W-RMS):	Less than 0.25% (DECK − 1, 2)
Tape Speed:	3000Hz ± 45Hz
	[TTA − 100 (TTA − 111S)]
Take − up Torque:	25~60g − cm (DECK − 1, 2)
F.F & REW Torque:	70~150g − cm (DECK − 1, 2)
Back Tension:	2~6g − cm (DECK − 1, 2)
Test Tape:	NORMAL TTA − 600
	(TTA − 119K)
	CrO2 TTA − 610
	(TTA − 119H)
	MT TTA − 620
	(TTA − 119MP)

EXPLODED VIEW − 1

REF. NO.	PART NO.	DESCRIPTION
A	87-067-703-019	BVT2 + 3 − 10 W/O SLOT
B	87-067-641-019	UTT2 + 3 − 8 W/O SLOT (B)
C	87-067-584-019	BVT2 + 3 − 6 W/O SLOT
D	87-591-094-419	QIT + 3 − 6
E	87-651-074-419	VT1 + 2.6 − 8
F	87-081-808-019	PW1.7 − 3.5 − 0.25



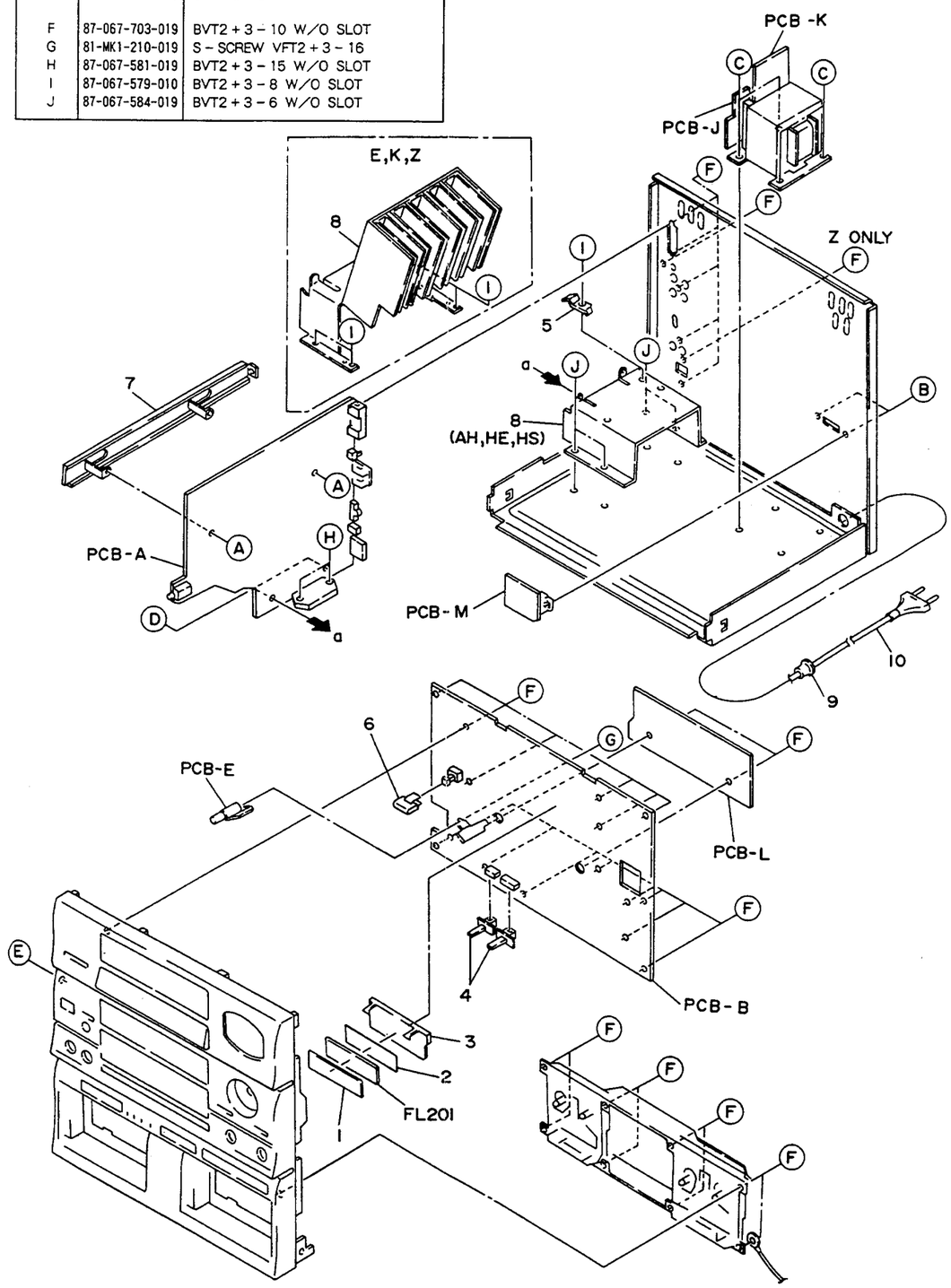
MECHANICAL PARTS LIST

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-1	★82-MK1-002-019	CABINET, FRONT (AH)	※	1
	1-1	★82-MK1-001-019	CABINET, FRONT (HE)	※	1
	1-1	★82-MK1-004-019	CABINET, FRONT (HS)	※	1
	1-1	★82-MK1-003-019	CABINET, FRONT (E, K, Z)	※	1
	1-2	★82-MK1-018-019	BOX, CASSETTE R (EXCEPT HS)	※	1
	1-2	★82-MK1-020-019	BOX, CASSETTE R (HS)	※	1
	1-3	★82-MK1-209-019	T – SPRING, CASSETTE R	※	1
	1-4	★82-MK1-208-019	T – SPRING, CASSETTE L	※	1
	1-5	★82-MK1-017-019	BOX, CASSETTE L (EXCEPT HS)	※	1
	1-5	★82-MK1-019-019	BOX, CASSETTE L (HS)	※	1
	1-6	★82-MK1-066-019	WINDOW, BOX	※	2
	1-7	★82-MK1-047-019	KNOB, BBE	※	2
	1-8	★82-MK1-031-019	KEY, FUNCTION (EXCEPT HS)	※	1
	1-8	★82-MK1-024-019	KEY, FUNCTION (HS)	※	1
	1-9	★82-MK1-021-019	DUMMY, AMP (EXCEPT HS)	※	1
	1-9	★82-MK1-023-019	DUMMY, AMP (HS)	※	1
	1-10	★82-MK1-030-019	KEY, SLEEP	※	1
	1-11	★82-234-018-010	KNOB, BIAS		1
	1-12	★81-DS1-011-019	BADGE, AIWA		3
	1-13	★82-MK1-029-019	KEY, POWER	※	1
	1-14	★82-MK1-032-019	KEY, PRETU (EXCEPT HS)	※	1
	1-14	★82-MK1-025-019	KEY, PRETU (HS)	※	1
	1-15	★82-MK1-057-019	INDICATION, PLAY 1	※	2
	1-16	★82-MK1-026-019	KEY, DECK 1	※	1
	1-17	★82-MK1-071-019	WINDOW, AMP (EXCEPT HS)	※	1
	1-17	★82-MK1-072-019	WINDOW, AMP (HS)	※	1
	1-18	★82-MK1-074-019	WINDOW, GEQ (EXCEPT HS)	※	1
	1-18	★82-MK1-075-019	WINDOW, GEQ (HS)	※	1
	1-19	★82-MK1-036-019	KEY, GEQ	※	1
	1-20	★82-MK1-037-019	KEY, PRESET (EXCEPT HS)	※	1
	1-20	★82-MK1-034-019	KEY, PRESET (HS)	※	1
	1-21	★82-MK1-038-019	KEY, ROCK (EXCEPT HS)	※	1
	1-21	★82-MK1-035-019	KEY, ROCK (HS)	※	1
	1-22	★82-MK1-008-019	CABINET, STEEL (AH, HE, HS)	※	1
	1-22	★82-MK1-007-018	CABINET, STEEL (E, K, Z)	※	1
	1-23	★87-084-077-019	RIVET, NYLON DIA 3.5 – 4.5		1
	1-24	---	BINDER, WIRE		1 (AH, HE, HS) 2 (E, K, Z)
	1-25	★82-MK1-009-019	PANEL, REAR (AH)	※	1
	1-25	★82-MK1-013-019	PANEL, REAR (HE)	※	1
	1-25	★82-MK1-015-019	PANEL, REAR (HS)	※	1
	1-25	★82-MK1-012-019	PANEL, REAR (E)	※	1
	1-25	★82-MK1-010-019	PANEL, REAR (K)	※	1
	1-25	★82-MK1-011-019	PANEL, REAR (Z)	※	1
	1-26	★87-085-214-019	FOOT		2
	1-27	---	CHASSIS, MAIN		1
	1-28	★81-VW1-015-010	RING, FOOT		2
	1-29	★81-VW1-201-019	FELT 20 – 15 – 2		2
	1-30	★80-CD3-233-010	PLATE, LOCK		2
	1-31	★81-715-234-019	C – SPRING, LOCK PLATE		2
	1-32	★81-693-209-010	LOCK HOLDER ASSY		2

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	1-33	★82-MK1-039-019	KEY CURSOL ASSY	※	1
	1-34	★87-064-112-019	OIL DUMPER, 75		2
	1-35	★82-MK1-033-019	KEY, BBE	※	2
	1-36	★82-MK1-061-019	INDICATION, BEE	※	2
	1-37	★82-MK1-027-019	KEY, DECK 2 (EXCEPT HS)	※	1
	1-37	★82-MK1-028-019	KEY, DECK 2 (HS)	※	1
	1-38	★82-MK1-059-019	INDICATION, PLAY 2	※	1
	1-39	★82-MK1-058-019	INDICATION, PLAY REC	※	1
	1-40	★82-MK1-062-019	INDICATION, VOL	※	1
	1-41	★82-MK1-048-019	KNOB, VOLUME	※	1
	1-42	★82-MK1-069-019	WINDOW, CL (EXCEPT HS)	※	1
	1-42	★82-MK1-070-019	WINDOW, CL (HS)	※	1
	1-43	★81-532-080-019	LABEL, CASSETTE – COMPONENT		2

EXPLODED VIEW – 2

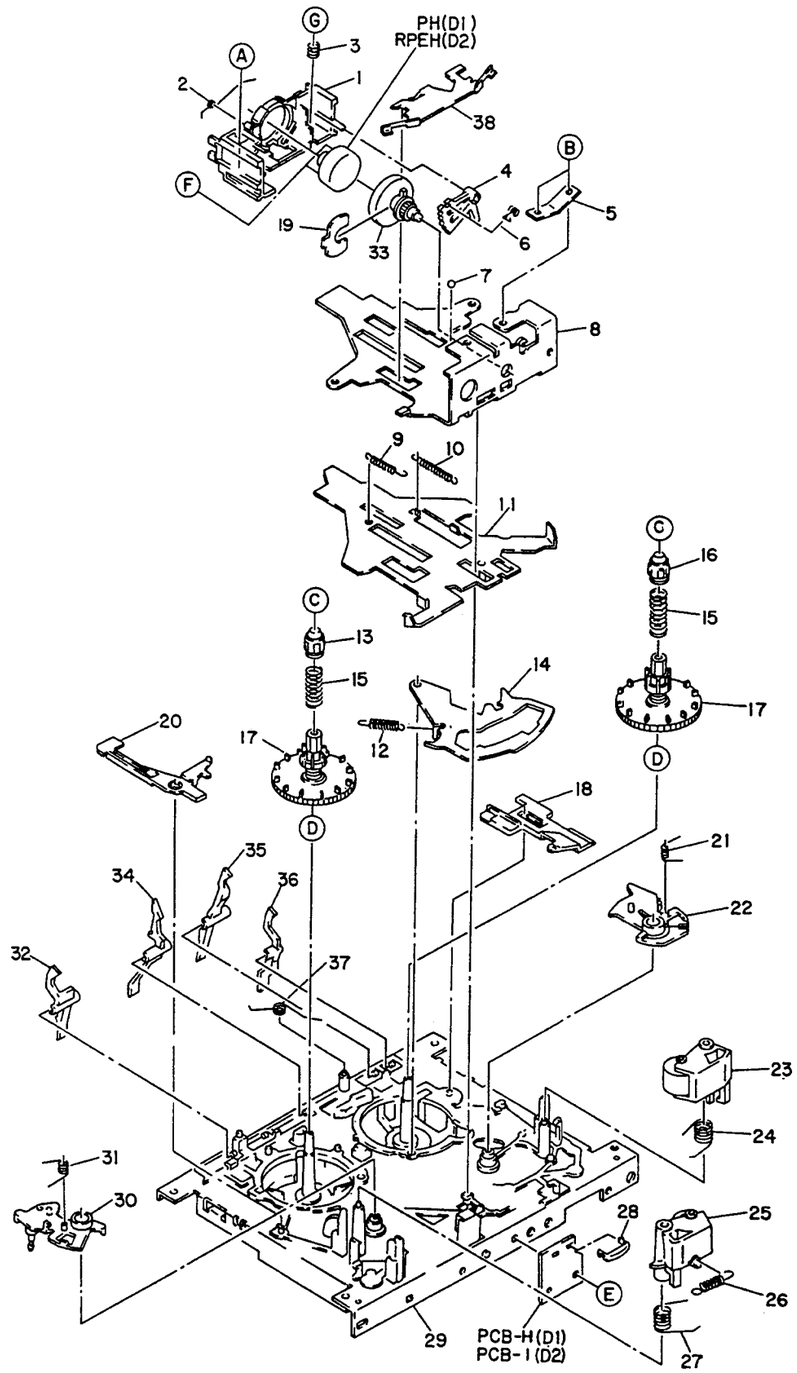
REF. NO.	PART NO.	DESCRIPTION
A	87-067-689-019	BVTT + 3 – 8
B	81-653-215-019	SPECIAL SCREW VT2
C	87-067-585-019	BVTT + 4 – 6
D	87-067-633-019	BVT2 + 3 – 8 W/CONVEX
E	87-591-094-419	QIT + 3 – 6
F	87-067-703-019	BVT2 + 3 – 10 W/O SLOT
G	81-MK1-210-019	S – SCREW VFT2 + 3 – 16
H	87-067-581-019	BVT2 + 3 – 15 W/O SLOT
I	87-067-579-010	BVT2 + 3 – 8 W/O SLOT
J	87-067-584-019	BVT2 + 3 – 6 W/O SLOT



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	2-1	★81-690-011-019	FILTER, TU		1
	2-2	★82-MK1-617-019	SHEET, FL	※	1
	2-3	★81-690-201-110	GUIDE, FL		1
	2-4	★82-MK1-043-019	KNOB, SLIDE	※	2
	2-5	---	HOLDER, IC		1
	2-6	★82-MK1-049-019	KNOB, VF	※	1
	2-7	---	HOLDER, P. C. B		1
	2-8	---	HEAT SINK ASSY		1
	2-9	★87-085-184-010	BUSHING, AC CORD (AH)		1
	2-9	★87-085-185-010	BUSHING, AC CORD (HE, E, K, Z)		1
	2-9	★87-085-189-010	BUSHING, CORD (HS)		1
	2-10	★82-034-749-019	CORD, AC (AH)		1
	2-10	★82-187-797-019	CORD, AC (HE, E, Z)		1
	2-10	★81-MX4-736-019	CORD, AC (HS)		1
	2-10	★87-034-975-010	CORD, AC (K)		1

EXPLODED VIEW – 3

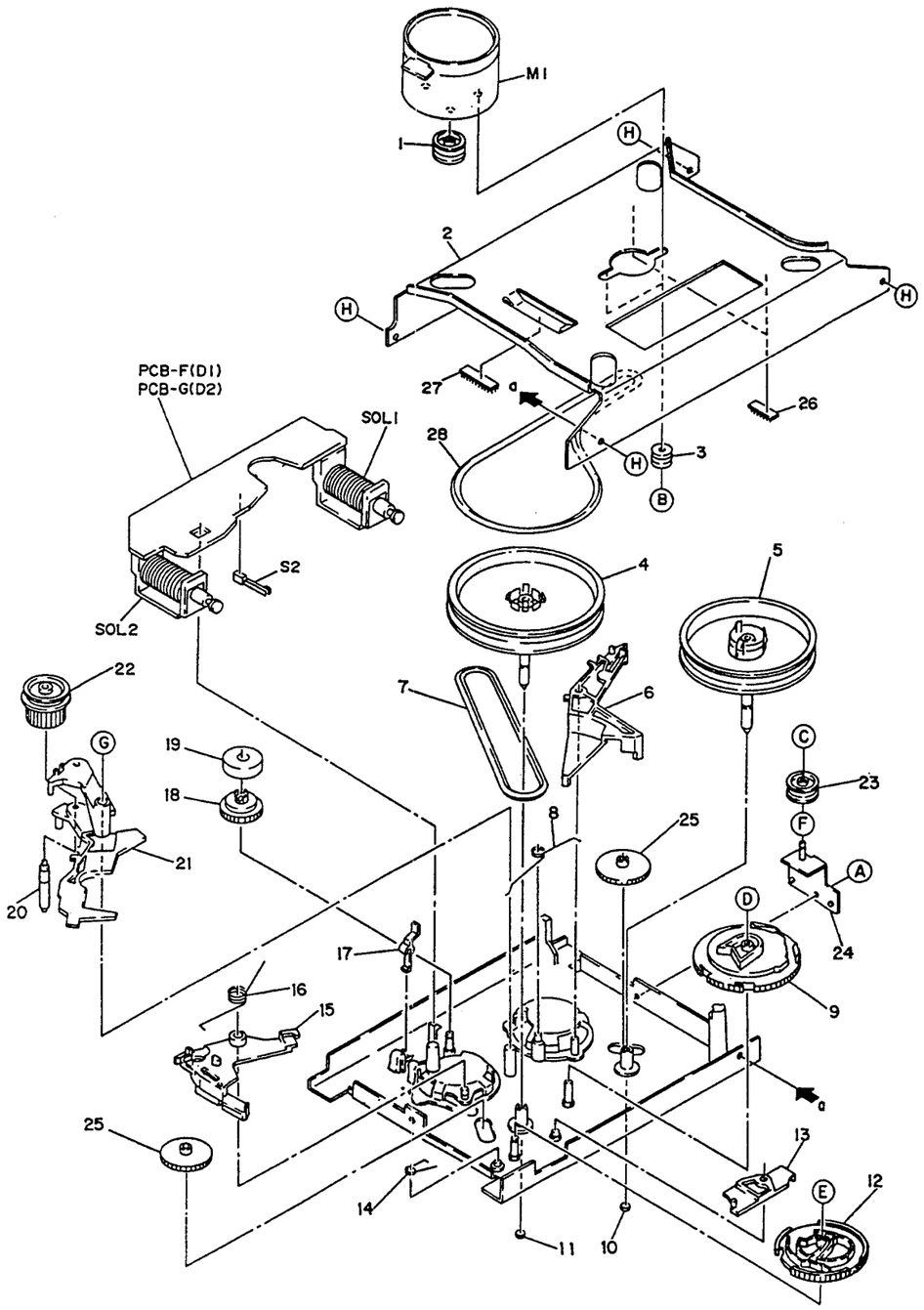
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A	87-263-033-119	V + 2 – 4	D	87-067-825-010	PW4.1 – 6.9 – 0.25	G	87-251-036-219	SCREW U + 2 – 8
B	80-ZM6-251-019	S – SCREW AZIMUTH 2	E	87-067-174-019	SCREW VTT + 2 – 4	H	87-067-476-010	LW1.63 – 3.8 – 0.25
C	86-524-418-019	SCREW VFT2 + 1.4 – 5	F	80-ZM6-207-019	V + 1.6 – 7			



PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	3-1	★86-575-288-410	GUIDE, TAPE		1
	3-2	★86-575-310-110	T – SPRING, HEAD		1
	3-3	★86-541-318-119	C – SPRING, AZIMUTH		1
	3-4	★86-575-290-210	GEAR, SEGMENT		1
	3-5	★86-575-343-110	P – SPRING, AZIMUTH 2		1
	3-6	★80-ZM6-229-110	T – SPRING, GEAR SEG 2		1
	3-7	★87-073-018-019	BALL, STEEL 1.588		1
	3-8	★86-575-311-410	CHASSIS, HEAD		1
	3-9	★86-535-285-119	E – SPRING, SLIDE		1
	3-10	★86-575-226-019	E – SPRING, CHASSIS HEAD		1
	3-11	★86-535-215-310	SLIDE PLATE ASSY		1
	3-12	★86-535-284-010	E – SPRING, LEVER DIRECTION		1
	3-13	★86-524-218-219	STOPPER, REEL TABLE S		1
	3-14	★86-535-218-210	DIRECTION LEVER ASSY		1
	3-15	★86-535-293-019	C – SPRING, REEL TABLE		2
	3-16	★86-524-223-219	STOPPER, REEL TABLE T		1
	3-17	★80-ZM6-254-110	REEL GEAR ASSY L		2
	3-18	★86-575-345-110	LEVER, SWITCH 2		1
	3-19	★86-575-305-010	PLATE, HOUSING		1
	3-20	★86-535-242-210	LEVER, EJECT L		1
	3-21	★86-535-282-019	T – SPRING, PLAY GEAR F		1
	3-22	★86-535-238-210	LEVER, PLAY F		1
	3-23	86-535-226-210	PINCH LEVER ASSY F		1
	3-24	★86-575-222-110	T – SPRING, PINCH F		1
	3-25	86-535-228-310	PINCH LEVER ASSY R		1
	3-26	★86-575-339-010	E – SPRING, PINCH 22		1
	3-27	★86-575-341-110	T – SPRING, PINCH L		1
	3-28	★86-575-342-010	HOLDER, WIRE 2		1
	3-29	★80-ZM6-201-510	MECHANISM CHASSIS ASSY		1
	3-30	★86-535-239-110	LEVER, PLAY R		1
	3-31	★86-535-283-019	T – SPRING, PLAY GEAR R		1
	3-32	★86-575-322-010	LEVER, REC A (D2)		1
	3-33	★86-575-306-810	HOLDER, HOUSING		1
	3-34	★86-575-324-110	LEVER, CASSETTE		1
	3-35	★86-575-327-110	LEVER, CROM		1
	3-36	★86-575-323-010	LEVER, REC B (D2)		1
	3-37	★80-ZM6-206-010	T – SPRING, CASSETTE		1
	3-38	★86-575-347-110	P – SPRING, HEAD 2		1

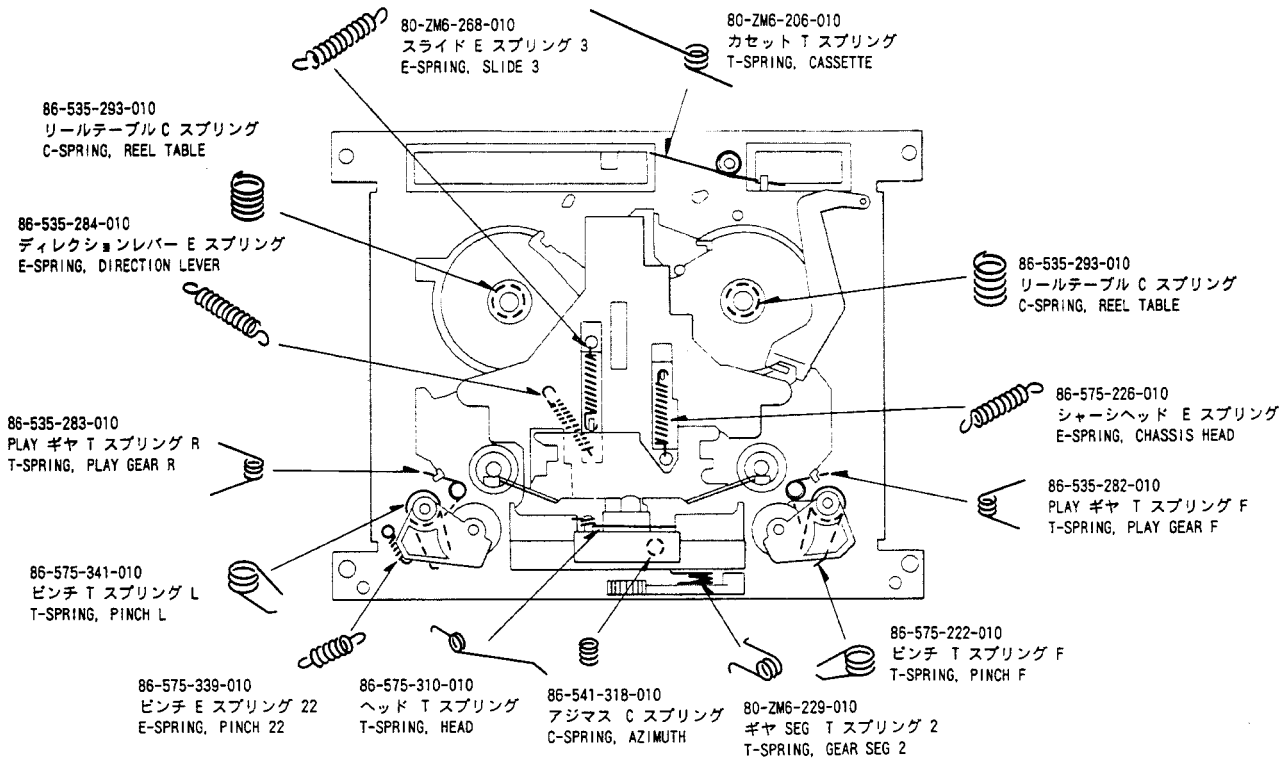
EXPLODED VIEW – 4

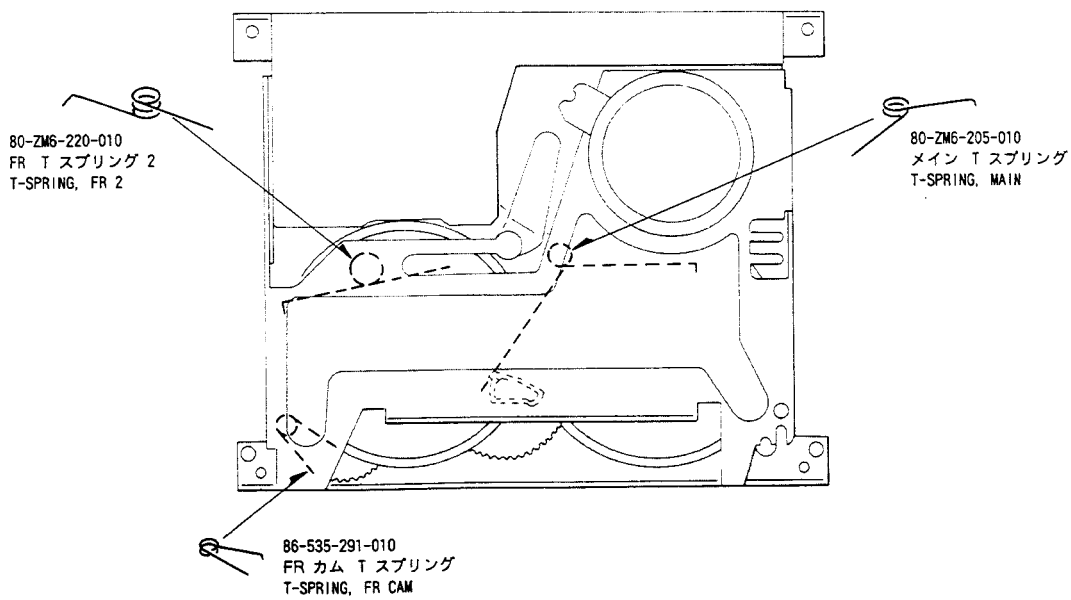
REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION	REF. NO.	PART NO.	DESCRIPTION
A	87-067-178-010	VTT + 2.6 – 3	D	87-081-489-019	PW1.7 – 3.5 – 0.25 SLT	G	80-ZM6-211-010	PW2.68 – 4.15 – 0.3 SLT
B	86-524-457-019	SCREW U + 2.6 – 5.5	E	87-067-380-019	PW1.7 – 7 – 0.5	H	80-ZM6-252-010	VTT + 2.6 – 3
C	80-ZM6-216-010	PW1.57 – 4 – 0.25 SLT	F	80-ZM6-249-010	PW2.1 – 5 – 0.13	I	86-575-353-019	PW2.3 – 5 – 0.5



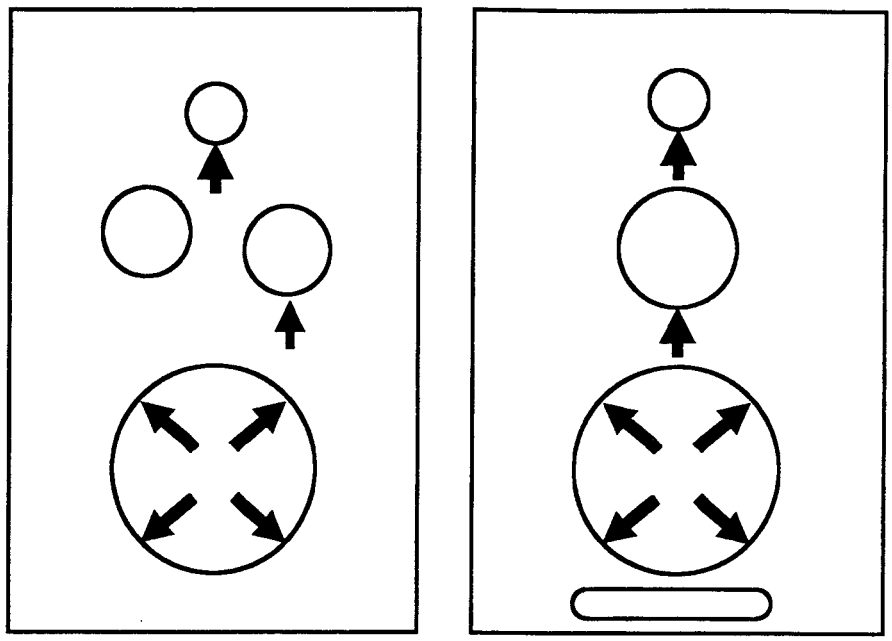
PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q'TY
	4-1	★80-ZM6-228-210	PULLEY, MOTOR 2		1
	4-2	★81-ZM3-201-010	HOLDER, MOTOR	※	1
	4-3	★86-513-441-110	COLLAR, MOTOR		3
	4-4	★80-ZM6-203-110	FLYWHEEL ASSY R1		1
	4-5	★80-ZM6-208-210	FLYWHEEL ASSY L1		1
	4-6	★86-535-231-410	LEVER, TRIGGER PLAY		1
	4-7	80-ZM6-227-110	BELT, SQ1. 2-140		1
	4-8	★80-ZM6-205-110	T – SPRING, MAIN		1
	4-9	★86-575-312-110	CAM, MAIN		1
	4-10	★80-ZM6-243-010	SHEET, 1. 75-3. 6-0. 5 SLT		1
	4-11	★80-ZM6-242-010	SHEET, 1. 95-3. 6-0. 5		1
	4-12	★80-ZM6-219-110	CAM, FR MK2 2M		1
	4-13	★86-575-229-210	LEVER, PAUSE B		1
	4-14	★86-535-291-210	T – SPRING, FR CAM		1
	4-15	★86-535-230-410	LEVER, TRIGGER FR		1
	4-16	★80-ZM6-220-010	T – SPRING, FR2		1
	4-17	★86-575-326-210	LEVER, RINK		1
	4-18	★86-575-328-110	GEAR, IDLER		1
	4-19	★80-ZM6-217-010	MAGNET, RING 2		1
	4-20	★80-ZM6-222-010	SHAFT, PULLEY FR		1
	4-21	★80-ZM6-218-110	LEVER, FR2		1
	4-22	★80-ZM6-221-010	GEAR, FR2		1
	4-23	★80-ZM6-224-210	PULLEY, COUPLER (D1)		1
	4-24	★80-ZM6-213-110	HOLDER, ASSY P (D1)		1
	4-25	★86-575-221-210	GEAR, PLAY		2
	4-26	★80-ZM6-230-010	SHEET, BELT		2
	4-27	★81-ZM3-204-010	SHEET, BELT 2	※	1
	4-28	81-ZM3-202-010	BELT, SQ1. 3-333 (D1)	※	1
	4-28	81-ZM3-203-010	BELT, SQ1. 3-332 (D2)	※	1

SPRING APPLICATION POSITION





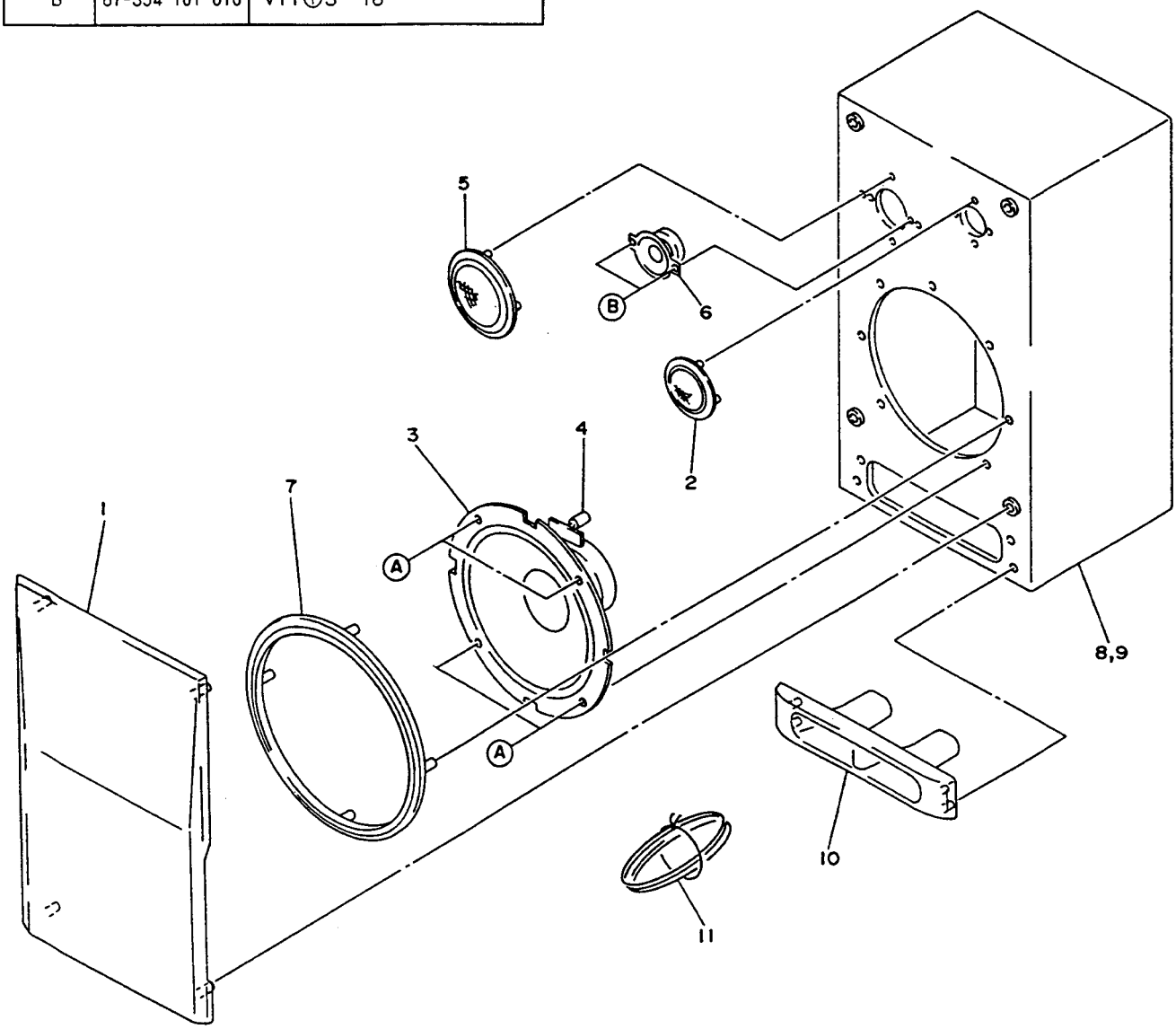
DISASSEMBLY INSTRUCTIONS



- Insert a flat-bladed screwdriver into the positions indicated by the arrows (shown in the above figure) and remove the grille assemblies of the woofer, mid-range speaker and tweeter. Remove the screws of each speaker unit and then remove the speaker units.

EXPLODED VIEW (SX – Z900) (AH, HE, HS)

REF. NO.	PART NO.	DESCRIPTION
A	87-343-172-010	UT1⊕4 – 12
B	87-354-101-010	VT1⊕3 – 18

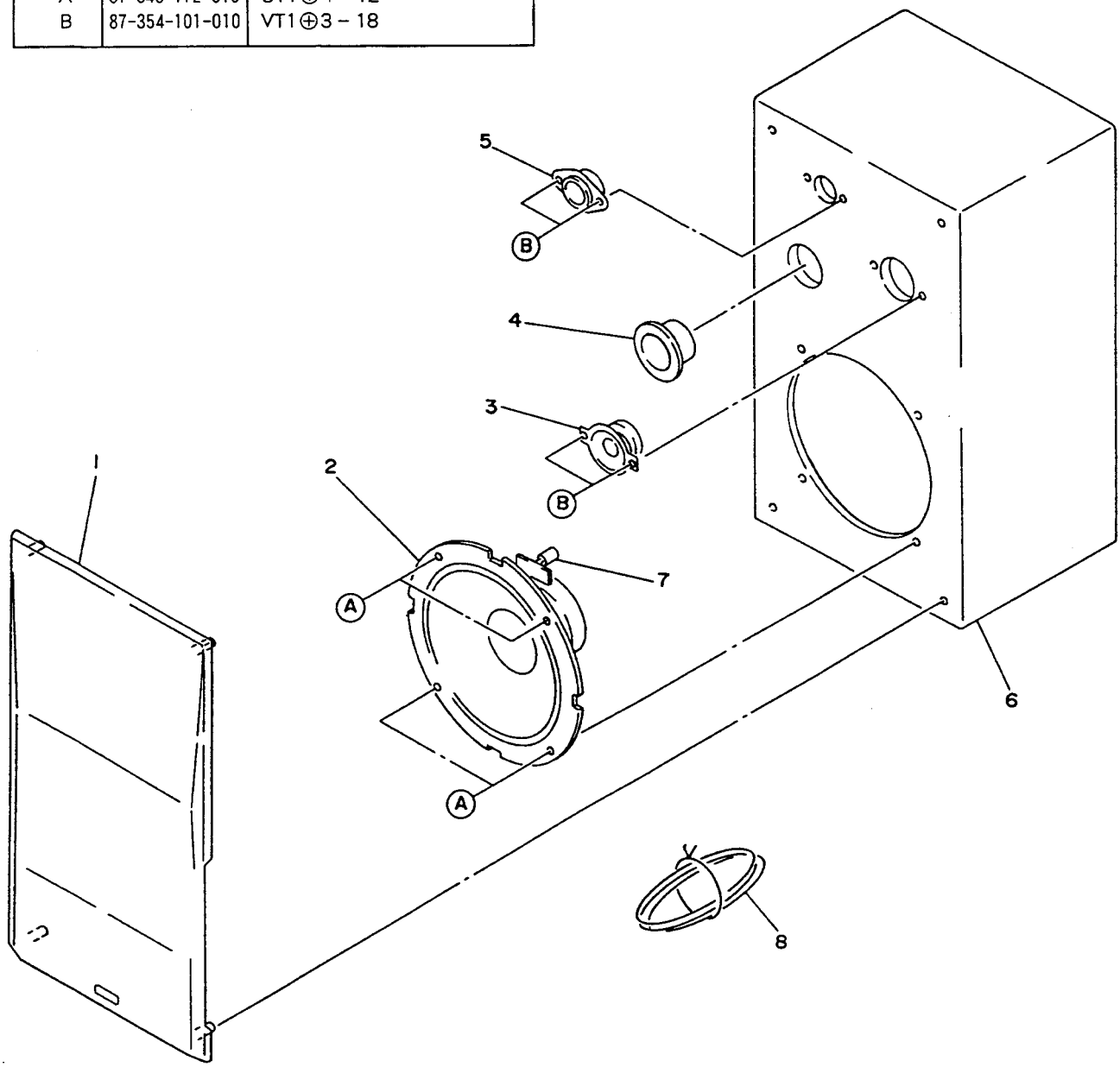


■ SPEAKER LIST (SX – Z900) (AH, HE, HS)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q.TY
	1	★82-MS2-012-010	GRILL FRAME ASSY		2
	2	★82-MS2-011-010	PANEL T ASSY		2
	3	★82-MS1-601-010	SPEAKER WOOFER		2
	4	★83-135-633-010	CAP, ELECT 3.3 μ F		2
	5	★82-MS2-010-010	PANEL M ASSY		2
	6	★82-MS1-603-010	SPEAKER TWEETER		2
	7	★82-MS2-003-010	PANEL W		2
	8	82-MS1-002-010	CABINET L		1
	9	82-MS1-001-010	CABINET R		1
	10	★82-MS2-009-010	DUCT		2
	11	★81-672-612-010	SPEAKER CORD		2

EXPLODED VIEW (SX – Z900) (E, K, Z)

REF. NO.	PART NO.	DESCRIPTION
A	87-343-172-010	UT1⊕4 – 12
B	87-354-101-010	VT1⊕3 – 18



■ SPEAKER LIST (SX – Z900) (E, K, Z)

PART NO. CHANGED TO	REF. NO.	PART NO.	DESCRIPTION	COMMON MODEL	Q,TY
	1	★82-MS1-006-010	GRILL FRAME ASSY		2
	2	★81-MS3-601-010	SPEAKER WOOFER		2
	3	★82-MS1-603-010	SPEAKER TWEETER		2
	4	★82-MS1-011-010	DUCT		2
	5	★81-NSC-601-010	SPEAKER CERAMIC		2
	6	82-MS1-005-010	CABINET		2
	7	★87-010-005-010	CAP, ELECT 2.2 μ F		2
	8	★82-MS1-012-010	SPEAKER CORD		2